THE

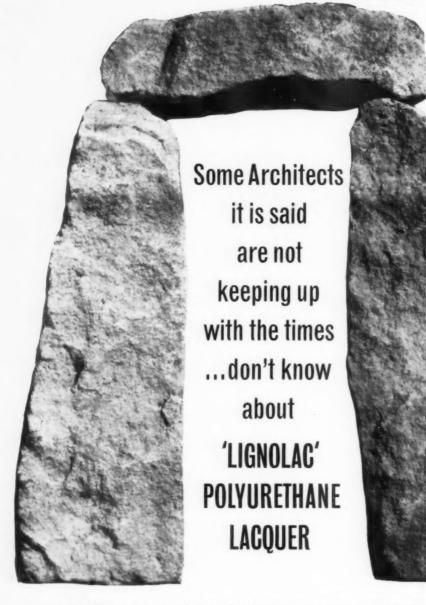
ARCHITECT

& BUILDING NEWS

18 NOVEMBER 1939 VOL. 216 NO. 15 ONE SHILLING WEEKLY



BUILDING EXHIBITION REPORT





Allocating some of your interior painting to winter months mea available: speedier service: easier to plan paint schedules: keener f sourse the fin th possible with mode uick-drying products ritish Paints Limite



..... a totally new type of clear finish that completely supersedes all conventional materials for exterior cladding and floors.

Lignolac Polyurethane Lacquer is a two pack product consisting of base and hardener. It offers the architect a coating of exceptional hardness and can match today. great durability. Used for exterior cladding, it ensures a handsome, deep gloss finish that will withstand severe outdoor conditions with unequalled efficiency; a remarkable protective

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Easily applied on the site by spray or brush, Lignolac Polyurethane Lacquer can be overcoated in 4-6 hours... has a low flame spread ... never cracks . . . and dries with a

rich deep build-up.

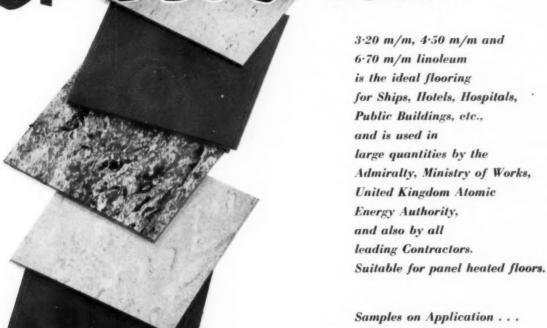
FOR FLOORS TOO! Outstanding too as a floor coating - for wood, lino, or tile (except PVC)-Lignolac Polyurethane Lacquer takes all the impact of wear and dirt itself, has a shining finish that stays shining for many months without polishing and a non-slip surface that will not chip, mark or flake.



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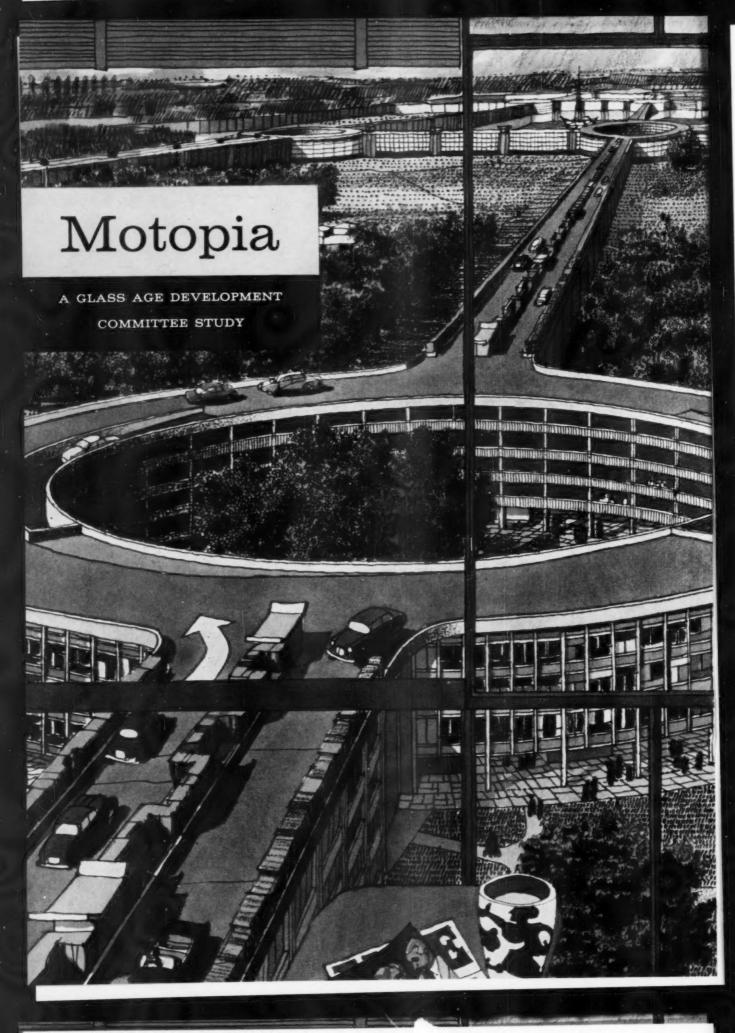
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One of the waterways which provides internal public transport water-bus stops are provided at 15 of the 35 roundabouts

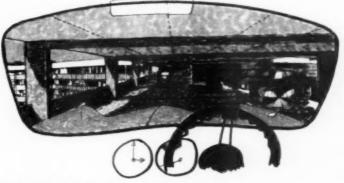


Motor Traffic in Motopia

The pattern of Motopia is laid on a grid approximately 1200 ft. x 800 ft. at the junctions of which are the roundabouts with ramps leading down to and up from the fourth-storey mews and access roads.

The roof level roads are 17 ft. wide dual carriageways. Hedges and barriers, 3 ft. 6 in. high, flank either side. The uninterrupted flow of traffic makes any control system unnecessary.

At Mews level the access road is 17 ft. wide, and there is parking space for one car per household, plus space for visitors' cars and tradesmen's vehicles. If several hundred cars were expected at one point (e.g. for a large wedding), a section of the high level road could be sealed off to form a park, and other traffic easily diverted by the nearest roundabout.



A "driver's eye" view of one of the mews roads.



The ramp linking the mews and high level roads



Motopia is designed to overcome the unhappy effects of congestion by placing the roads upon the continuous terraces built in great squares, which provide accommodation for 30,000 people. This is the fourth postwar study prepared by the Glass Age Development Committee which consists of Jellicoe, Ballantyne & Coleridge, F.A.R.I.B.A., Edward D. Mills, F.R.I.B.A., and Ove Arup & Partners and is convened by Pilkington Brothers Limited.

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Plymouth Co-Operative Society Ltd. building 'Co-operative House, Derrys Cross. Building and Internal Shop Fixtures designed by W.J. Reed, F.R.I.B.A. Chief Architect, C.W.S. Architect's Department, London, For this building Semtex supplied Semastic Decorative Tiles, Rubber and Linoleum, Vinylex Floor Tiles, Cork Tiles and preformed coved skirting.

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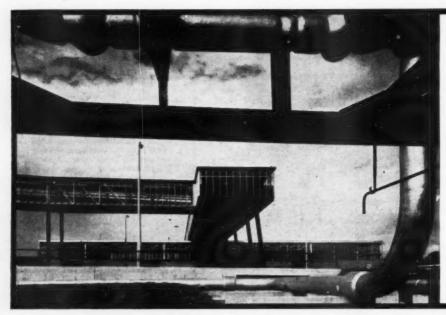
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patent glazing is like windows only BIGGER and often it's IN THE ROOF And it doesn't Have PUTTY



The new Heinz factory at Wigan is the largest factory to be built in Britain since the war. Shown here is the ancillary can factory, clad in Williams & Williams "Aluminex" vertical patent glazing. The continuous opening lights are gear-operated to give critical control of ventilation.

Architects:
J. Douglass Mathews
and Partners, London
in association with
Skidmore, Owings
and Merrill, New York.

The new Heinz factory is turning depressed Wigan into a boom area. By the time it is in full production it will be employing some 3,000 local people and taking up a good deal of the local agricultural produce, which is both abundant and high in quality.

The 127-acre site has a gradient of 1 in 40 which has been exploited to give the factory two working levels—both accessible to lorries.

Manufacture starts on the upper level with unloading, storage, preparation and cooking. Products are then gravity fed to the lower level for can filling, sterilization, packing, warehousing and finally dispatch.

The presence of old coal mines underneath the site meant careful positioning of the component buildings. The can factory is therefore at some distance from the food production unit



WILLIAMS & WILLIAMS ALUMINEX SIDEWALL GLAZING HAS BEEN USED TO CLAD

the service gantry which takes finished cans across to the main factory for filling

> and the covered footway connecting the two factories.

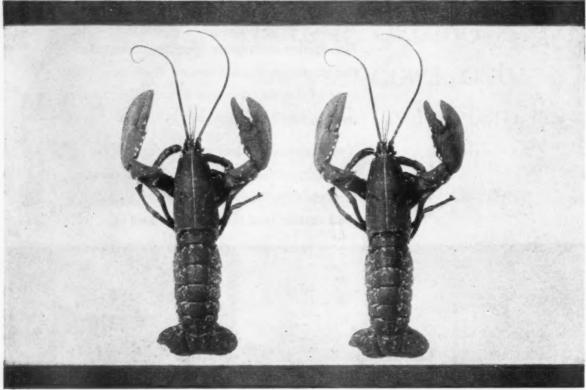


and is linked to it by a service gantry which feeds the finished cans into the appropriate stage of production process.

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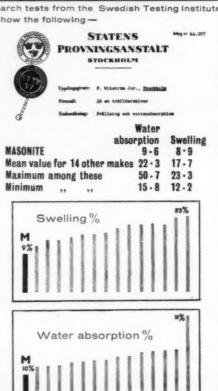
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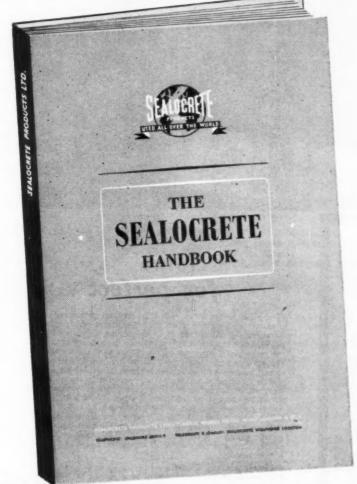
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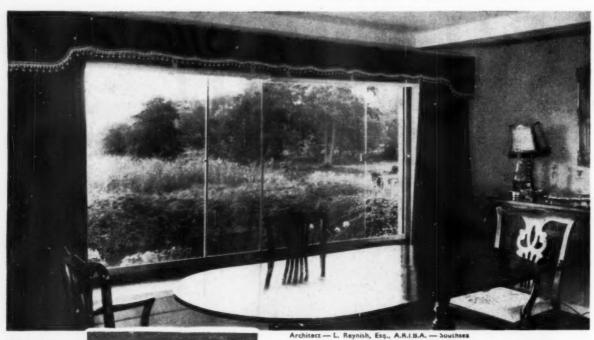
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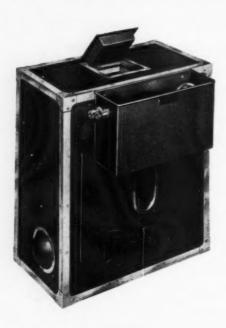


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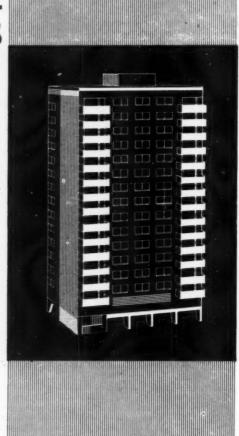
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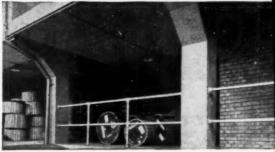
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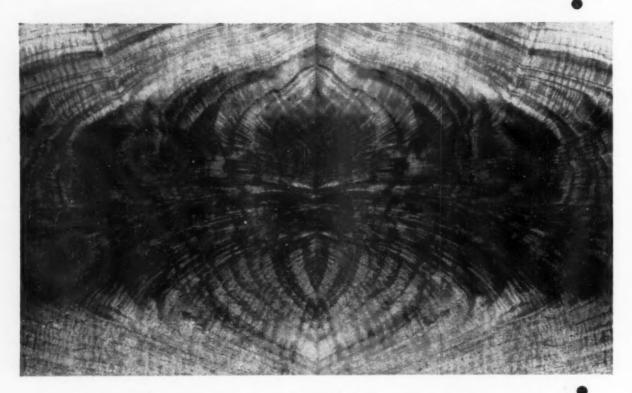
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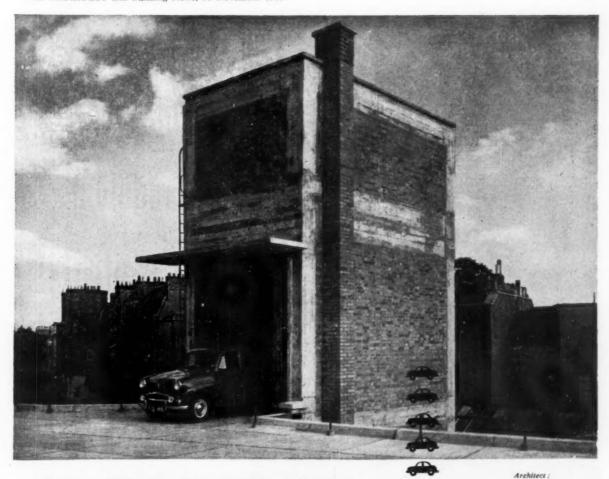
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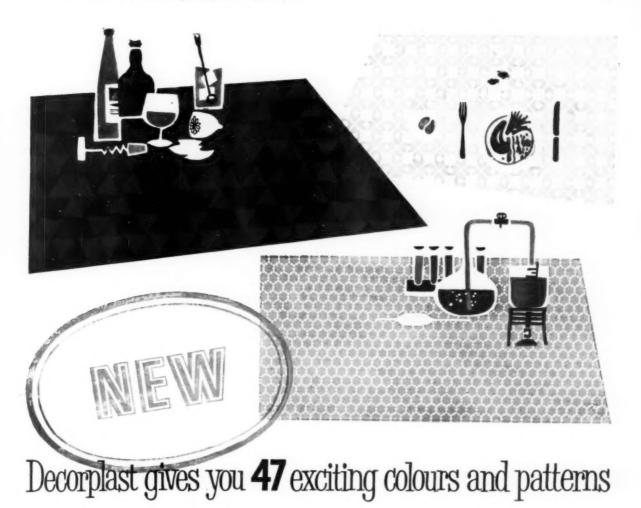
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BOLTON

COLLAPSIBLE SHUTTER DOORS



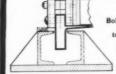
The illustrations show how versatile the Bolton Patent Shutter Door really is and installations everywhere are giving lasting trouble-free service. The doors are craftsman built from tested materials to a design which has never been bettered and hand or power operation may be had for any situation. Some of the details of the design and reasons for the popularity of Bolton Patent Shutter Doors will be seen from the diagrams.

- Two hand operated doors fitted to a loading bay for the British Oxygen Co. Ltd., Carlisle.
- Two electrically operated doors at Metropolitan-Vickers Electrical Co. Ltd., Manchester.
- One pair of electrically operated doors at a test bed for the Bristol Aeroplane Co.

The illustration right shows a partly bunched Bolton Patent Shutter Door at Onehunga War Memorial Swimming Pool, New Zealand.

For full details write now for our comprehensive Catalogue No. AB306

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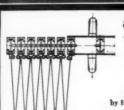


This is purely a location guide since
Bolton Patent Shutter Doors are entirely
top hung. The bold outline indicates the
bottom guide piece which supports the
heavily sherardised leaves.

BOLTON GATE COMPANY

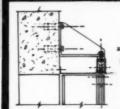
FOR EVERY TYPE OF OPENING





Sectional Door Plan

This sectional plan is of a Bolton
Patent Shutter Door in its
bunched position. Heavily
sherardised shutter leaves
are curled round h' dia. wire
reinforcement and are connected
by full height bronze or alloy hinging
strips. Steel pickets are at the rear side.



Top Track Fixing

This detail of the ideal fixing shows a box-track suspended from the inside face of the lintel allowing the door to bunch clear of the opening.

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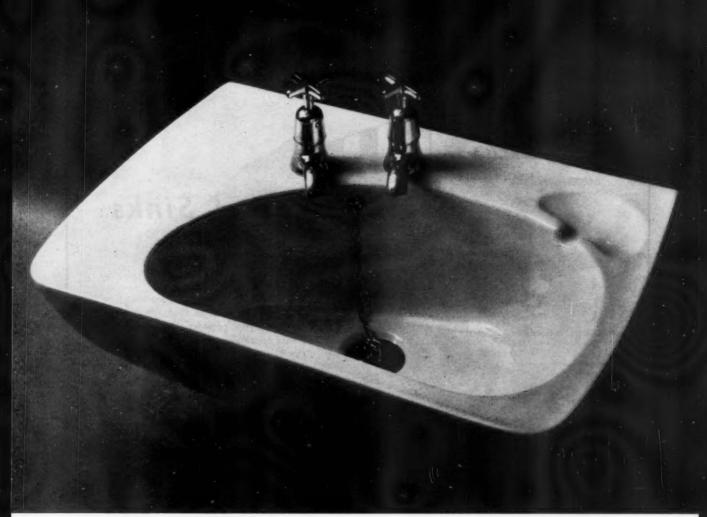
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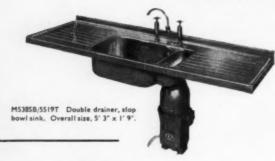
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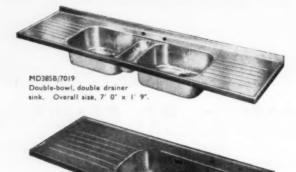


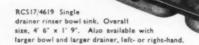
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We have much pleasure in introducing to you a new series of stainless steel sinks, designed to meet the needs of the busy housewife.

The sinks in this new SB series incorporate a small slop bowl alongside the washing-up bowl. The slop bowls of these sinks are available with various types of sinkage to accommodate a waste disposal unit, a $3\frac{1}{2}$ " crumb cup waste, or a normal $1\frac{1}{2}$ " waste outlet. The slop bowl can be provided with a perforated stainless steel strainer basket, to prevent tea-leaves and slops being carried down the waste outlet. The sinks are available with single or double drainer, or as a double drainer unit.

A further addition to our extensive range is the single drainer CS-type sink, these sinks have a rinser bowl alongside the wash-up bowl. Apart from being used for rinsing, this bowl is ideal for soaking salads and vegetables, while the wash-up bowl is being used for other purposes. Being of a comparatively short length these sinks enable you to have the luxury of a double-bowl sink in the average family kitchen. These sinks are available in three sizes and are available with the drainer on either left or right as required.

We will be pleased to supply free illustrated leaflets and price lists of our extensive range of stainless steel sinks, on request.

THE STAINLESS STEEL SINK CO. LTD.

Head Office: Ring Road, Lower Wortley, Leeds 12, Tel. Leeds 638711 London Office: 14 Great Peter Street, London S.W.I. Tel. Abbey 1575



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THE ARCHITECT: As the aggregate is pre-mixed in the factory, strict adherence to specification is always assured. As this aggregate is Perlite, a considerable saving in dead-load may be achieved, so vital in the planning of multi-storey projects.

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THE OCCUPANT: "MURILITE" PLASTER provides greater fire resistance than ever known before with any plastering material. Its high thermal insulation value reduces heat loss through walls and ceilings, minimizes condensation and lessens the risk of pattern staining. "MURILITE," being a Gypsum based Plaster, is free from shrinkage cracks. For more detailed information or advice on any plastering problem, write to:—



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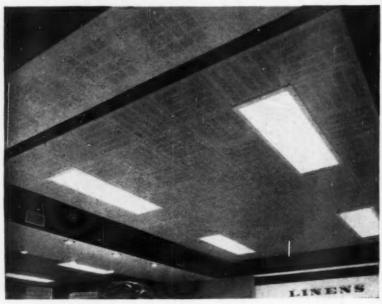
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4'' TREETAC and DECORAC ACOUSTIC TILES, $24''\times24'',$ in the London Co-Operative Society's Store at Hounslow, Middlesex

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An austere functional appearance need not accompany the subduing of noise. The TREETEX range of nine different types - nine different patterns of Acoustic Tiles and Sheets - offers efficient sound absorption with unrivalled scope for decorative design. The effects achieved with TREETEX are agreeable to the eye as well as to the ear.

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- Versatile range of sizes, according to type: 24" x 24", the new 16" x 16", and 12" x 12". Useful sheets of 4' x 8'.

DESIGN FOR SILENCE — AND DECORATION

Send for this new Folder illustrating some actual applications of TREETEX Acoustic Tiles and Sheets.

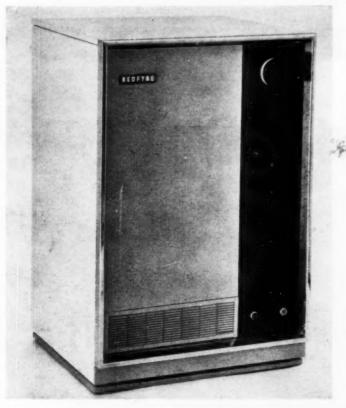




ACOUSTIC TILES AND SHEETS

TREETEX ACOUSTICS LTD., 8, GUILFORD ST., LONDON, W.C.1. Tel: CHAncery 7387

No doubt now! Oil-fired central heating is best—even for smaller homes



The new Redfyre Centramatic —"brainiest" oil-fired boiler ever

Oil-fired central heating comes of age with the new Redfyre Centramatic. All the problems that have hitherto got in the way of convenience and economy have been given intelligent answers. As a result the Centramatic can provide the kind of trouble-free service that until now would have been impossible in such a reasonably-priced appliance. To achieve all this Redfyre's oil-heating design team have built more "brains" into the Centramatic than there are in any other oil-fired boiler.

Here's how this "brain-power" is applied

Electric Ignition

Ordinary oil-fired boilers, when they are idling, either cut down the general rate of burning or rely on a single pilot-light. In both cases you get imperfect, uneconomical and "sooty" combustion. The Redfyre Centramatic has a better idea. When the thermostat control says "no heat required", the flames go out altogether and no oil or electricity is used. When heat is needed again the flames are relit automatically and the unit is operating at maximum output within seconds.

Complete Thermostatic Control

The householder can select the temperature he needs on the temperature scale. Then the Redfyre Centramatic regulates the burning so as to keep the water automatically at the selected temperature. (Incidentally, the control apparatus of the Centramatic is as pretty a piece of precision engineering as you could hope to see.)

Automatic Combustion

Some boilers need a good, natural chimney draught. Not the Redfyre Centramatic (although it needs a chimney flue into which to exhaust). It provides its own draught, and regulates how much it needs. This saves a lot of fuss and bother.

Specially designed for the kitchen

The standard dimensions for basic kitchen equipment are 36" high by 21" deep. But the only oil-fired boiler with sufficient sense to conform to these figures is the Redfyre Centramatic. So it looks good in a modern kitchen not only because it is good looking (and it's by far the most handsome oil-fired boiler that anyone's yet designed), but because it's the right shape and the right size. It is also fully insulated. The Centramatic is finished in wipe-clean three-tone enamel and available in an attractive variety of colours.

Easy to install and service

The Redfyre Centramatic asks for no specialised installation technique because it is self-contained and because it is not dependent on chimney pull for efficient operation. The local supplier can service it yearly, and that's all the attention it will normally need.

A few more facts

The Redfyre Centramatic can produce up to 50,000 B.Th.U.'s perhour—enough for radiators plus heated towel rails, plus ample hot water for the kitchen, plus continuous hot baths. In other words it is ideal for the three, four of five bedroom house. A point to remember is that because the Centramatic has the benefit of

electric ignition, it is still efficient and economical when worked at less than its full capacity.

Two sizes available

The Centramatic described here is the Centramatic 50. But there is also available a larger version, the Centramatic 80, with an hourly output of 80,000 B.Th.U.'s. It has all the good points of the Centramatic 50, is cylindrical in shape (22" diameter by 54" high) and compact for its output.

Prices: Centramatic 50 £128 (no extras) Centramatic 80 £149 (no extras)

See and discuss the Redfyre Centramatic at the Building Exhibition

May we tell you more?

Full technical specifications of the Redfyre Centramatic oil-fired boilers are available on request. Please write to Newton Chambers & Co., Ltd., Redfyre Products, Thorncliffe, Sheffield.

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One 10 person Passenger Lift travelling at 250 ft. per minute.

 $\label{purpose} \begin{tabular}{ll} Dual Purpose Collective Variable Voltage Control, \\ Power operated sliding doors. \\ \end{tabular}$

Position indicators and direction arrows at each floor.

Architects: Ronald Ward & Partners.

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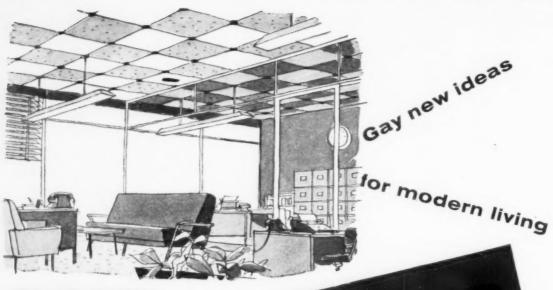


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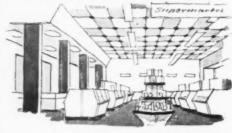
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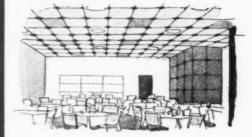
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one man can now lay a complete room of floor warming elements

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At the Simplex factory, the cables are laid on a special form of mat at the correct spaces indicated on the heating engineer's drawing. When the cables are fixed, the mat is simply

rolled up and sent to the site where it can be unrolled into position and connected up in minutes. The screed can afterwards be laid with little danger to the cable elements.

The Simplex pre-fabricated mat system is ideal for blocks of flats, hotels, housing estates and other locations where it is possible to prepare a number of mats to the same dimensions and loadings.

All the related electrical equipment, conduit fittings, switchgear and automatic control switchgear is made by Simplex and the Merplex cables are supplied by Mersey Cables, which is an associated company. So the service is complete to the last detail. A fully informative brochure will gladly be sent to you on request.

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NEWS from



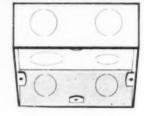
A NEW RANGE OF CEILING SWITCHES

Now going into production, this new range of 15 ampere ceiling switches has been designed for the control of heavier rated appliances. The ceiling switches are heavily built for long trouble-free service. Available with and without pilot-lamps, they have 2" fixing centres to enable them to be mounted on standard conduit boxes. Moulded mounting blocks are also available for easier compliance with the wiring regulations.













THE 1960 CATALOGUE IS NOW

Also illustrated here but not available until January next are similar designs fitted with a square plate for mounting direct on to a BS 1363 box. These patterns are also available with or without pilotlamps. Full details of the switches are given in the new MK catalogue just published.





MK 172 DH3

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ILLS' DOORS



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Heard the news from weyroc?

As a result of increased production from new automatic plant...



WEYROC has always had the reputation of being the board you can trust—to do so many jobs, so well. Now, new developments put WEYROC even further ahead as the board of choice for the Building and allied Trades.

Blue Label werroc has been discontinued and in its place comes a new, improved form of werroc... in quantities never possible before. This new, improved werroc is lightweight, strong, stable and durable, with smooth-sanded moisture-resistant surfaces for easier working. In short, a very much more precise board than before. As such, it has marked advantages for almost every job in building* which calls for flat-form timber. This new werroc is available...

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Both boards produced in $\frac{1}{4}$ ", $\frac{5}{6}$ " and $\frac{3}{4}$ " thicknesses nominal and cost between $1/1\frac{1}{4}$ d. and 1/6d. per sq. ft. (according to thickness).

Although these Boards are almost identical in strength characteristics and surface properties, we recommend WEYROC '34' particularly for the Building Trades. This is because it is available in the standard building board size and because it has a slightly higher impact resistance.

N.B. These Boards are not suitable for suspended flooring.

As Blue Label WEYROC has now been discontinued, this means that there is at present no WEYROC board for flooring. However, it is our intention to produce a new, special flooring grade in the very near future.

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Horizontal Pivot Hung Wall Panels



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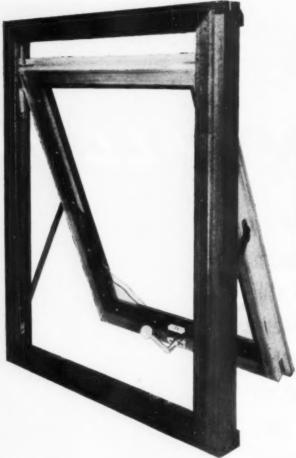
Projecting Top Hung



Bottom Hung



Fixed Lights Side Hung and Doors



The HA Window System

The insulation efficiency of multiple glazing is primarily dependent on the physical and functional properties of the frame into which it is installed. Two years of concentrated development work, aimed at achieving maximum efficiency of the window frame, have gone into the new HA Window System. The system is based on the universal use of a 'master' section in composite timber frames, and a group of pivoting and locking mechanisms of new design. The range of windows within the system covers fixed lights and any type of opening sash, supplied separately or as combined units. Each type is available single glazed, double glazed (both sealed cavity and ventilated cavity), triple glazed (sealed cavity), or special provision can be made for the use of dual-glazed units. All frames incorporate four-point perimeter locking with adjustable friction pivot hinges and stays. Each section of the composite timber frame is double rebated.

The use of a 'master' section in the frames enables the

exterior sight lines of all the windows in the system to correspond, making for elegance and unity in trim. Enquiries welcomed by the Design Director, Mr. Armstrong, at

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Double glazing — sealed cavity in timber frame— at 20/- per square foot glazed!

Built on the HA Window system, the SC type, illustrated left, is a single sash double-glazed window, with a \(\frac{1}{2}\)in. sealed dry air cavity, supplied pre-glazed at 20s. per square foot.

All sections of the composite timber frame are double rebated, providing complete draught and weather proofing.

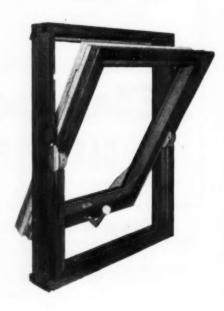
The method of construction enables single panes of glass to be replaced in the event of breakage, instead of a complete unit as is the case with orthodox sealed-cavity double-glazing.

Includes four-point perimeter locking and adjustable friction pivot hinges and s. vs. Type VC, illustrated below, has twin sashes with a 2\frac{1}{2}\text{in.} ventilated cavity, and employs the HA composite timber frame, with double rebated sections, and perimeter locking, adjustable friction pivot hinges and stays.

This design is recommended where a high degree of sound insulation is required in addition to thermal insulation. Full provision is made for the inclusion of blinds.



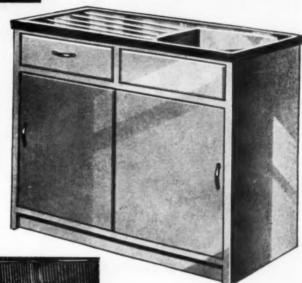
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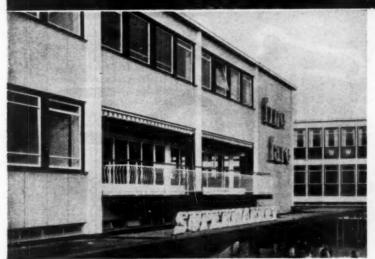
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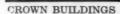


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DESIGN: H.M. MINISTRY OF WORKS

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Incorporated in the Controller are special setting features to allow night to day depression and early morning boost period settings, a maximum boost being provided in colder weather with a reduced boost level for milder weather. Our Engineers will be pleased to examine and recommend control equipment for YOUR schemes also, to ensure efficient and economic use of installed plant.



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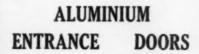
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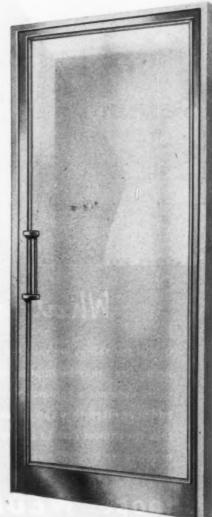




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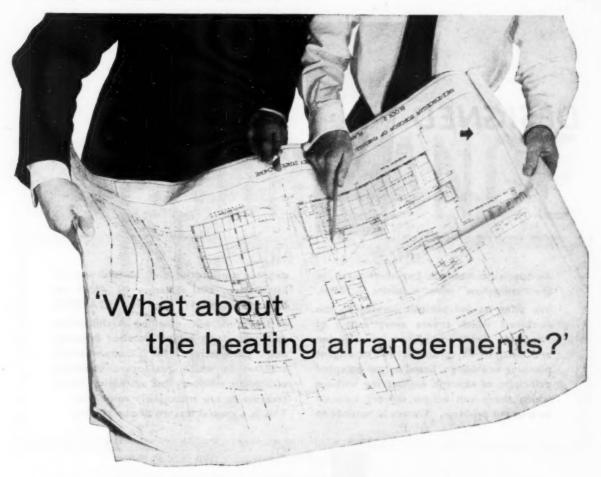
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In addition to the Calvert programme, extensions were also planned and put in hand at the Company's works at Bletchley.

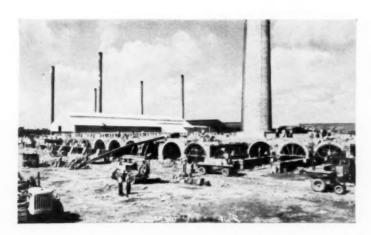
In fact, the overall result of the various operations will ensure that an additional 100,000,000 'Phorpres' bricks will be available during the next twelve months. The illustration shown on the opposite page gives an idea of the extent of the programme. On the London Brick Company's stand at the Building Exhibition the facts are presented in greater detail. You are invited to examine them for yourself.





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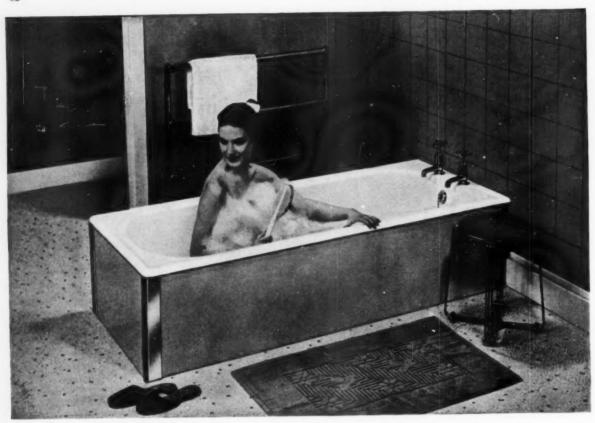
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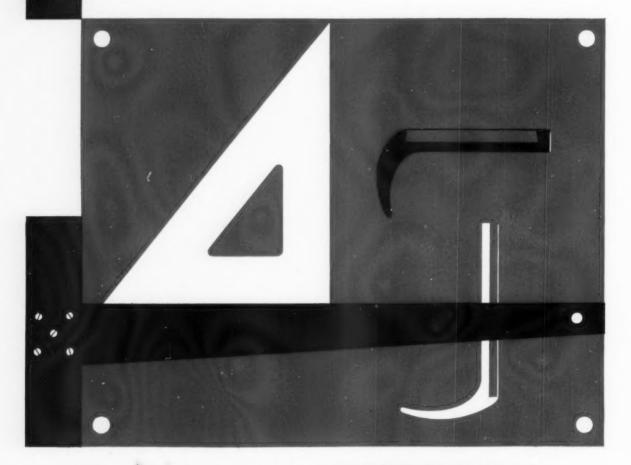
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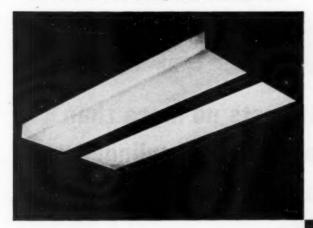


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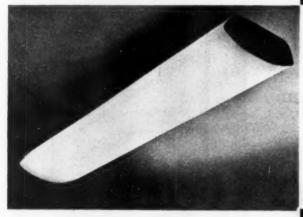
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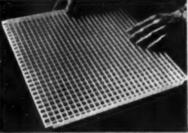


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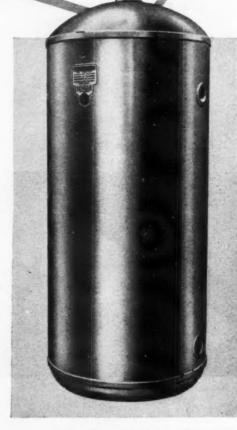
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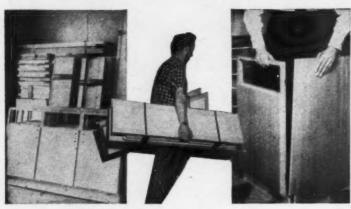
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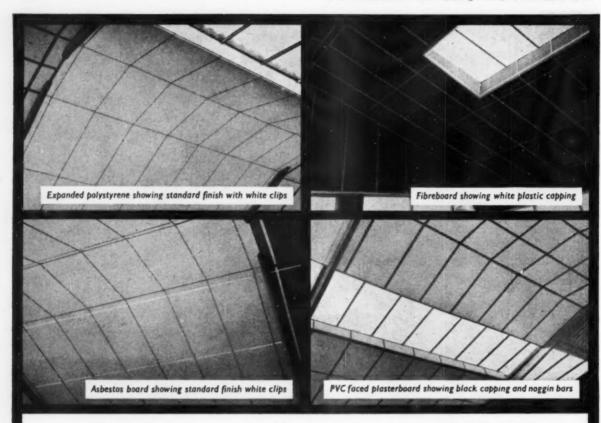
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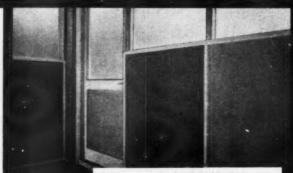
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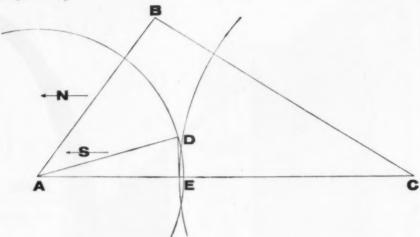
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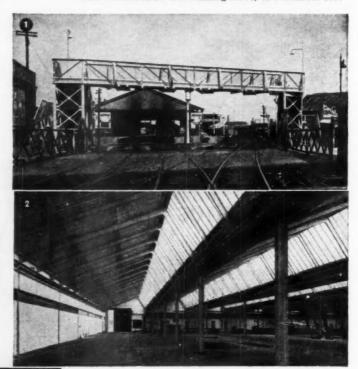


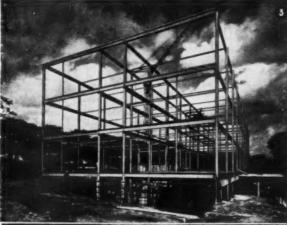
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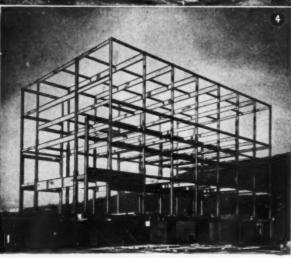
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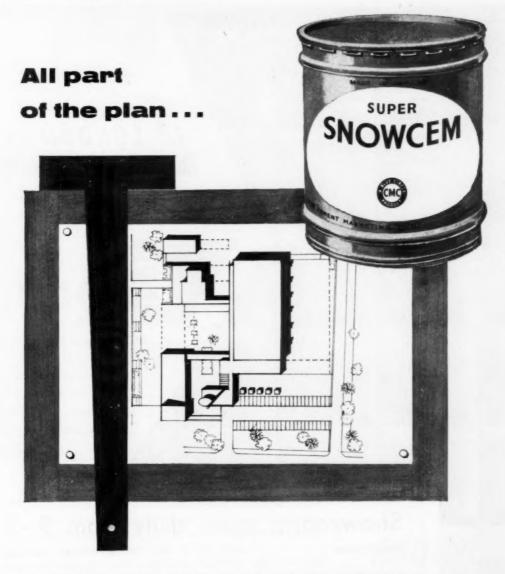
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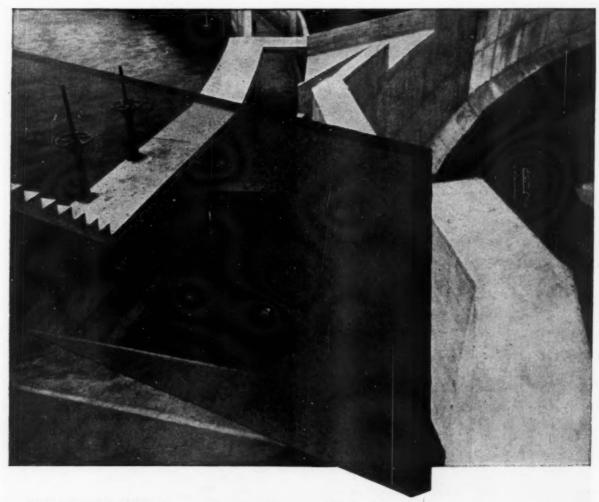
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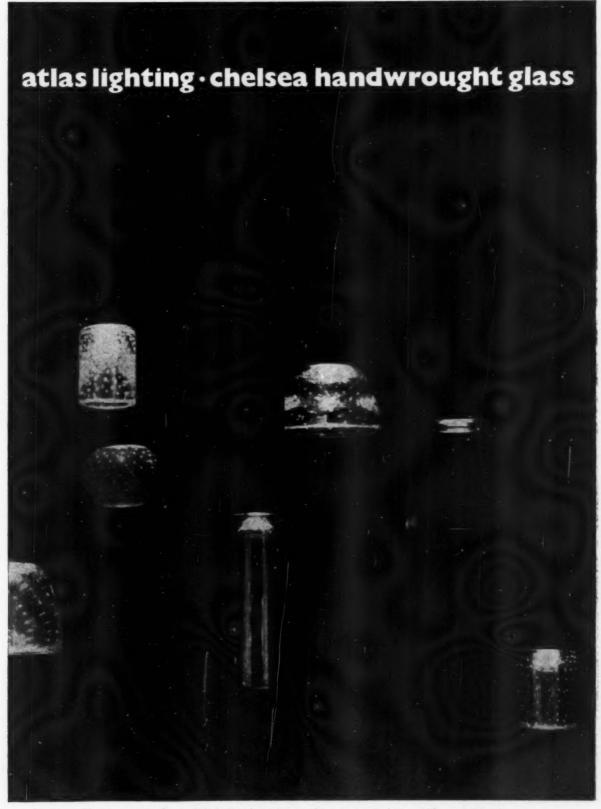
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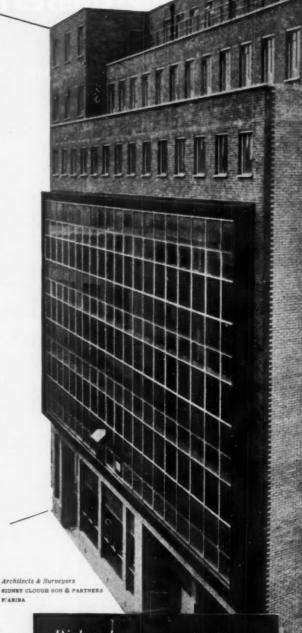
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A TWO-TIER PROFESSION?

THE spate of papers and reports from architect, builder and other organizations reached a peak last week. Two important papers, published in the current issue of the R.I.B.A. Journal, refer respectively to the Royal Institute's committee structure and organization and to the report of the Oxford Conference Committee. The Institute of Builders has just published its new memorandum and articles of association, and reports on building matters have just been released by the British Productivity Council and by the Board of Building Education.²

This number is our second special issue on the Building Exhibition; space is limited, and it is not possible to comment on all these documents. Some must wait for future issues. Certainly, for the profession, the paper which portends far-reaching consequences in the long run is the eagerly awaited report of the Oxford Architectural Education Conference Committee, printed on pages 461 to 464.

The report contains some admirable aims, particularly for the development of courses in architecture (para. 20) which lead logically, perhaps with the exception of London, to the teaching of architecture at universities only. Added to professional training, opportunities for continuing research and post-graduate study which a university with a degree course in architecture might be expected to offer the student and graduate of the future, there would be the opportunity for them to mix with their contemporaries in other professions and walks of life (referred to in this column a few weeks ago) to the mutual benefit of future architects and would-be

clients. An essential part of any such attempt to establish architectural education within the university educational system should be the granting of sufficient funds to the promising student, who, as he is considered to be good enough, should be able to enter full nivrseity enough, should be able to enter full university himself or to his parents on his account.

It is clear that the R.I.B.A. Council has not yet made up its mind about the unqualified assistant, of whom the report says there are 10,000 in the United Kingdom and 5,000 of them not bona fide students (paras. 22-30); but the council has agreed to investigate proposals for an approved form of training for technicians and technologists. The Oxford Conference Committee makes plain: "It is not the intention to create a second-grade class of architects" (para. 23), but . . . "some provision must be made for such people (technicians and technologists) to come together in an organization which can give them formal status, ensure their professional efficiency, discipline and standards and give them means of inter-communication for the continuing development of their proficiency."

Changes in the training for qualifying in architecture would open up opportunities for developing new courses for technicians and technologists. But what would they be called? There are statutory powers (not always fully used) and governing bodies enough which cover the title "architect". Is it desirable to develop another group or to develop differences between "registered" and "chartered" and keep them all "architects"?

¹ Better Methods in the Building Trades, 5s. ² Management Studies for the Building Industry, 7s 6d.

EVENTS AND COMMENTS

THE ARCHITECTURE CLUB

In spite of the fog, some ninety members and guests of the Architecture Club supped at Simpson's-in-the-Strand last week and then debated the motion that, "This club deplores the architecture of recent office buildings in London". Mr. Raymond Erith and Mr. Guy Morgan were the opening speakers, and the company joined in afterwards. Most of those who spoke were, I thought, rather too polite, and the general impression gained was that architects in London were doing very well if they managed to put a building up at all, let alone a good one. Clients, planning control and the Royal Fine Art Commission were blamed for the dead hand on architecture. Sir Walter Warboys, chairman of the C.o.I.D. and a director of, among other things, I.C.I., spoke as an enlightened client and said that architects should stress the advantages of good, modern buildings to their clients, not only from the point of view of use but as good publicity for the client's business. Everyone talks about a good new building. Sir Walter appealed for better detailing, door-knobs and handrails; these were the things the chairman handled and appreciated, the bigger things, such as the façade of the building, he seldom saw. The evening was remarkable for the number of informed contributions by non-architects, and some of the original spirit of the club seemed to be returning. The general feeling, however, seemed to be that our office buildings were not so bad, all things considered.

Mr. C. H. Elsom blamed the architect for bad buildings and thought that the client was not to blame. The meeting was only once seriously side-tracked and that was when Mr. Raglan Squire said that the only way to set architects free was to preserve less, and cited the instance of the Nash Terraces. This brought a protest, unfortunately largely inaudible from my place, from Mr. A. W. Acworth, of the Georgian Group. The club seemed to be on the point of returning to its normal wrangle over the past, but quietly recovered. Although many people praised the Thorn Electric building, by Basil Spence, it was not until the president, Lord Conesford, rose to close the proceedings that any individual building took a bashing. He attacked that horror which is to be placed on the Monico site in Piccadilly Circus, and described himself as a very angry old man, saying that he was staggered that no one had mentioned the building earlier. Lord Conesford was in his best form and trounced the building, the L.C.C. and everyone else who was not as angry as he was. The chairman of the L.C.C. Town Planning Committee, Mr. Richard Edmonds, was sitting nearby, and having earlier talked of his love of London and his conviction that town planners must not interfere with architects' buildings, found the wrath of the company turned upon him for granting planning permission for the building in question. Lord Conesford accused the L.C.C. of preparing a good plan and abandoning it to the developers. This was the bright spot of a not overscintillating evening.

A.B.S. SYMBOL COMPETITION

The Architects' Benevolent Society wants a new badge and is offering prizes of 25, 15 and 10 guineas for designs in a competition which will be judged by Sir Leslie Martin, Eduardo Paolozzi, the sculptor, and W. G. Howell. I see from the handout that this was

first announced in June, although I must admit that I had not heard of it before. The printing strike may be to blame. The point of my comment is to draw your attention to the fact that the competition is now open until December 1. The results will be announced, as already arranged, at the A.B.S. Ball, on December 9. If you are good at badges take a pen and get drawing.

CHIMNEY TROUBLES

Only a few weeks ago I commended a book on domestic central heating and hot water, published by the Coal Utilisation Council, and now I have a second excellently printed publication from them. This is a booklet entitled Curing Chimney Troubles. It is not only pretty to look at but very useful as well, for it discusses the various symptoms of trouble with the flue in great detail and with clear diagrams. This is the first publication I have seen which collects together all available chimney lore.

YERBURY FOUNDATION LECTURE TOMORROW

Unless all the seats have been allocated you still have time to get a ticket for tomorrow's Yerbury Foundation Lecture, at the T.U.C. Building, Great Russell Street, W.C.1. The title is "From idea to finished structure—an examination of communications", and the speakers are Sir Thomas Bennett, who, as an outstanding speaker, needs no introduction, Mr. A. Hudson Davies, chairman of Fibreglass and chairman also of several of the various building committees of Liverpool University, Mr. W. James, one of the most lively and enlightened quantity surveyors, and Mr. John Gilliam, joint assistant managing director of Gilbert-Ash Ltd. Admission is by ticket only and application should be made to the secretary, the Yerbury Foundation, 36 Bedford Square, W.C.1.

I.U.A. COMMISSION MEETS IN LONDON

The International Union of Architects working commission on architectural education met in London last week under the chairmanship of E. Beaudouin.

Apart from the working sessions which took place at 66 Portland Place, on Thursday and Friday, a very full programme of visits and entertainment was organized by the R.I.B.A. Fear is sometimes expressed by British architects, who have travelled abroad, that when their colleagues from other countries come to England they are not sufficiently well looked after nor entertained in the continental fashion. Having followed most of the programme of this visit, I can assure anyone who is worried that they can set their minds at rest. The R.I.B.A. rose to the occasion in splendid fashion, and other organizations and individuals also played their parts. This, you say, was only to be expected; quite so, but I have heard so many distressed mutterings and have so often been wonderfully received by architects abroad that I felt it should be mentioned.

After a morning session of work on Thursday, the commission went to the A.A., where they were received by the president, Mr. H. T. Cadbury-Brown, and entertained to lunch. Mr. Michael Pattrick, principal of the school, explained his work, and a short tour was made of the studios before returning to the R.I.B.A. for more work.

On Friday, the commission visited the Building Research Station, after lunch at the R.I.B.A., with the chairman of the R.I.B.A. Board of Architectural Education, Mr. D. H. Beaty-Pownall, and members of the U.K. Committee of the I.U.A. Their tour of the station included a talk on its work, by Mr. K. Alsop, and short lectures, by John Madge, on research into the user requirement of buildings, and, by E. F. Stacey, on acoustics. From Garston the party returned to London, where they attended a cocktail party at the Building Centre. From the Building Centre back to the R.I.B.A. to meet the president for dinner.

Lunch at the R.I.B.A. was served in the new grand committee room, which, though not quite finished, is an excellent place for such functions beautifully furnished and decorated and with a fine view over west London. The committee room was not large enough for dinner, which was served in the new canteen. I had not seen it by artificial light before and found the illumination rather harsh and glaring. I hope some modification will be made, for it is otherwise a very pleasant room. The food had been well chosen from British specialities, and was admirably prepared and served by the canteen staff. Short, succinct speeches were made by the president and M. Beaudouin. On Saturday, an all-day tour to Cambridge was arranged. The party, having made a lightning visit to Harlow en route, were received at the Cambridge University School of Architecture by Pro-fessor Sir Leslie and Lady Martin. Sir Leslie then described the school and its work, and members of the staff and senior students acted as guides to a specially arranged exhibition of drawings and models. at Jesus College, where Sir Leslie is a Fellow, was one of the high spots of the visit, with glittering silver, solid oak, blazing log fire and libations of excellent port, which last armed the party against the rigours of a damp winter afternoon. In spite of the rain, there were constant gasps of appreciation, in many tongues, at the interior and exterior architecture of the colleges, round which Sir Leslie conducted us with a fine blend of gusto and charm. Cambridge, one knew, had been doing this for visitors from abroad for centuries.

Most of the members of the commission dispersed on Sunday, those who remained being entertained privately. The members of the party were: M. E. Beaudouin (France), Professor and Mrs. A. Cámara (Spain), Professor J. Fragner (Czechoslovakia), Professor and Mrs. Carlos Ramos (Portugal), Professor and Mrs. L. Wie (East Germany), Professor J. Zachwatowicz (Poland), Professor C. E. Geisedorf (Switzerland), Professor R. J. Gardner-Medwin (U.K.), Professor A. Kriessis (Greece), and Professor G. Positano (Italy).

DOMESTIC GAS CENTRAL HEATING

AND HOT WATER

The North Thames Gas Board has arranged a semipermanent exhibition of different types of equipment for central heating and hot-water supply at its showrooms in Regent's Park Road, Finchley. Be warned, however, that this is nowhere near Regent's Park. If you want to know about the latest developments in this field and to see them all side by side, it is worth making an expedition to Finchley. I imagine, however, that the individual manufacturers will be showing their products at Olympia. Two exhibits struck me as being of particular interest: the use of the familiar Ascot heater in conjunction with a small-bore pipe heating installation and a new American gas-fired incinerator of considerable The incinerator is, I know, not a heating appliance, but I mention it because it is new to this country and is much needed. It burns anything, that will burn, smokelessly. The gas boys say that it emits



The Minister of Works, Lord John Hope, examining examples of facing bricks in the Brick Library at the Building Centre

no smell either. This claim should, in my opinion, be treated with reserve by intending purchasers. I hear that Radiant Heating Ltd., who are the importers, intend to manufacture the appliance under licence at a later date.

MINISTER OF WORKS AT THE BUILDING CENTRE

My picture shows the Minister of Works, Lord John Hope, at the Building Centre last week. He was received by Mr. V. E. Vincent, vice-chairman, Mr. N. C. Macnamara, member of the council, and Mr. F. R. Yerbury, director. The Minister spent half an hour touring the exhibition and was afterwards entertained to luncheon in the council room.

U.A.M. UP TO THE MINUTE

In June I wrote about the first section of a handsome new catalogue produced by the U.A.M. group. You may remember that it was designed by Dargan Bullivant and that it incorporated the SfB classification system, which has since been officially adopted by the Conseil International du Bâtement. The first section of the catalogue, though excellent in many ways, was criticized here and elsewhere on matters of detail. The producers are, therefore, doubly to be congratulated on having taken note of all the comments and altered the second section accordingly. A better explanation of the classification system is now provided, drawings are clearer, and there is a system of page identification which was lacking before. The loose-leaf binding has also been improved. The U.A.M. group has set a very high standard; let us hope that others will follow.

TRADE LITERATURE AT THE BUILDING EXHIBITION

Trade literature has improved in the past five years. This is partly due to the work of the more enlightened manufacturers and their advertising agents and partly to a general all-round improvement in design standards, for which the C.o.I.D. and the various educational bodies can be thanked. The R.I.B.A./Building Centre Trade Literature Competition, now in its third year, has also helped, the B.C. having campaigned for standardized literature for years. We have, however, still a very long way to go. With the object of making a broad survey of what is going on, my agents are going to collect copies of all the literature being distributed by manufacturers at the Building Exhibition, which opens today at Olympia. If I can still get into my office after it has been delivered I propose to sort it and report on it.

ABNER

Meet the Folk

FEW weeks ago, in fact the night after the meeting at the R.I.C.S. on cost planning, George Walter Tumpkins was invited to Irene's home on the Northern Line to meet the folk. George, it may be recalled, was a semi-senior assistant quantity surveyor (referred in typical subject 1957-58-59) at the firm of Grist & Mills; Irene, a junior typist in the same offce, aged between 16 and 23, a blonde, whose beauty had in six short months become a legend among workers-up and takers-off alike. Irene had recently celebrated a birthday (it was not known which one) and because her architect uncle had given her a record player she had felt it would be fun to combine meet-the-folk with a musical evening. For this reason she had asked George to bring with him some records. Admittedly, the only one he could find, a cracked "78" of Primo Scala's Accordion Band playing "Somewhere in the Blue Ridge Mountains", had looked a poor relation against Irene's flexible long players of grand opera, but Irene had listened to it with interest and apparent enjoyment. To return the compliment, George had congratulated Irene on her musical taste and had expressed the opinion that some of the tunes in "Aida" were quite as good as anything from "West Side Story".

After records—supper. Mrs. Jones, Irene's mother, sat at one end of the table in a new pink twin set and grey pleated skirt; her father, freshly shaved, carved cold lamb at the other. He looked very hygienic in bowls blazer and a white drip-dry shirt, that really had dried overnight. The cold lamb and two veg., accompanied by brown ale, for the men, gave place to apple pie with real cream, and this was followed by coffee, black or white, served in the front room. George, normally serious-minded and intense, as befits a member of his profession, had loosened up under the influence of the brown ale. His face, rosy by temperament, had reddened with pleasure, and to crown the success of the meal, his carefully rehearsed building-industry joke had been received with howls of laughter. George could not remember the last time that one of his jokes had been received with howls of laughter. Finally, the meal completed, and the coffee-pot drained, George and Irene had offered—as lovers will—to do the washing-up. Thus it is that at 9 p.m., his jacket removed and his business man's stomach covered by one of Mrs. Jones' aprons, we find George in the kitchen waiting for the first washed spoon to be laid upon the drainer. In his hand is a teacloth, one of those useful ones which tells you the time in Cairo when it is twelve noon at Greenwich.

"George," said Irene to the sink unit as she withdrew a fistful of hot, soapy silver from the bowl, "what was the cost planning meeting like that night?"

"Interesting," said George, not displeased that conversation had got round to shop once more. "Interesting, but a little strange. It was the first meeting I have been to on this subject, and we didn't seem, to me, to be talking about quantity surveying at all. First we had a talk by an architect, and he told us what information architects require from quantity surveyors when they are planning the job."

"That didn't take long."

"Thirty minutes. There was so much he had to write it on a blackboard. There were five headings: five different stages at which the architect needs information from the quantity surveyor. At the first stage he needs help from something called historical cost data, that is, figures of costs of similar jobs to that which the client has in mind. Then comes the second stage, when the architect is considering the design, whether the building is to be single storey or double, what the ground is like, the likely shape of the building and its effect upon cost—all general information, but a little more specific than was needed at the first stage. At the third stage, the architect wants to know the relative cost of steel and reinforced concrete frame, flat roof and pitched roof-things like that-and at the fourth stage he expects the quantity surveyor to tell him the difference in cost between a plastered and fair-face wall, thermoplastic tiles and quarry tiles, a coloured lavatory basin and a white one-all the more particular things in a building. Then there is the last stage, and that is the only one I knew anything about—preparing the bill of quantities."

"Do we do all this at Grist & Mills?"

"Heaven, no."

"Why not?"
"Two reasons. One is we have no architects who want us to, and the other is that we couldn't, we

haven't the necessary information."
"But sooner or later architects will ask you to include cost planning in your service. Then you must

have the information."

"You may be right, but there is another side to this cost planning-and I happen to know that Mr. Grist is on the other side. He says that there is a lot of talk about cost planning just now because it is in vogue. It's fashionable. Quantity surveyors favour it because architects are beginning to demand it from them, and architects favour it because they see it either as a way to prevent excessive cost or something to lay the blame on when their buildings do cost too much. But Mr. Grist is cynical. He doesn't think cost planning will catch on. The way he looks at it is this. Architects are either careful with money or they are not-if they spend too much on themselves, they spend too much on their buildings. And just as a wife will not change a spendthrift husband, neither will cost planning change a spendthrift architect. Besides, the architects whose buildings cost more than they should are invariably those who expect their quantity surveyors to prepare a bill of quantities from eighth-scale plans and elevations, and they haven't the face to ask a quantity surveyor to plan for them at each of five stages when they don't properly plan at even one stage themselves. The other category, the careful architect, has always managed to control his cost so far, probably by close liaison with his quantity surveyor, so he is unlikely to be interested in cost planning.

Having said all that, George adjusted his collar—the front stud was sticking to his warm neck. He was just wondering if it would be proper to kiss Irene very lightly on the back of her blonde head the next time he reached for a plate, when she said:

"Who else spoke at the meeting, George?"

"The architect was followed by a quantity surveyor. He spoke about cost planning from our angle; how we should look upon cost planning as part of our answer to the all-in service. Then another quantity surveyor,



Memorial panel of the new civil engineering building, Liverpool University. Architects: Fry, Drew, Drake & Lasdun

a member of the junior organization, talked about some of the snags of cost planning. He was a realist, he might even have been briefed by Mr. Grist. He said that quantity surveyors have insufficient time for cost planning and that we shall never have time for it so long as we are asked to prepare bills at sketch plan stage. He also said that young quantity surveyors starting on their own will be at a disadvantage because they will have no cost data—which is the basis of cost planning."

"George, you once told me that quantity surveyors exist because builders want them—that the builder is your client. Now you are being asked to look upon the

architect as your client."

(The chance for that kiss seemed to have gone.)
"Yes, this is just one of our problems. I still say we must work primarily for the builder: this has always been and must always be our first duty. But we must

must work primarily for the builder: this has always been and must always be our first duty. But we must, somehow, now find time for cost planning as well."

"Do you think you will?"
"We must wait and see."

"My uncle says, quantity surveyors spend too much time waiting and seeing. He says the sooner they make themselves useful to architects the better."

"Your uncle should try measuring plumbing, sometime."

"It is no answer for quantity surveyors to say they can't help architects because they are too busy measuring pipes. Surely it is time that quantity surveyors spent less time finding out how big things are and more time working out how much they cost."

"Builders don't think that."
"Does that really matter?"

"It is the only thing that matters—except that we must now try to be of more service to architects as well."

"No man can serve two masters, George."

Suddenly George flung down the teacloth which tells you the time in Cairo when it is twelve noon at Greenwich, and speaking with quiet and uncommon determination, said: "Irene, stop arguing and stop washing-up and let me kiss you."

It was one of those rare, exotic demands that is so rarely made in suburban kitchens, and Irene had no

choice but to obey.

A pity. One would like to have heard George's answer to that one about serving two masters.

NEWS

Changes in R.I.B.A. Committee Structure

The R.I.B.A. Council recently decided upon considerable changes in their committee structure. The Practice Committee's report on the subject is published in the current issue of the R.I.B.A. Journal. The principal committee changes and the members appointed are as follows:

Policy Committee

This takes the place of the former executive committee. It is a stocktaking committee and therefore a policythinking committee and will consist of president, hon. secretary, hon. treasurer, chairman of the allied societies' conference and five elected members of the council, one of whom must be a vice-president. Members appointed by the council are: The president, the chairman of the allied societies' conference, the hon. secretary, the hon. treasurer, D. E. Gibson, vice-president, Robert H. Matthew, A. W. Cleeve Barr, Dennis Clarke Hall and Frederick Gibberd.

Three separate committees will look after the science side of the Royal Institute:

Technical Information Committee

This committee will have as its major task the question of a technical information service which has to be settled in the coming year. Other means of communication—lectures, symposia, refresher courses, etc.—may later have to be dealt with. Members appointed are: A. W. Cleeve Barr, Dargan Bullivant, D. Rigby Childs, T. A. Collins, M. H. Cooke-Yarborough, Andrew Derbyshire, J. C. Eastwick Fields, Thomas Mitchell and R. T. Walters, representative of the B.R.S.

Technical Standards Committee

This committee will deal with codes and standards, questions of by-laws and building regulations. Members appointed are: W. A. Allen, Stuart Bentley, H. H. Clark, Oliver J. Cox, Derek R. Hammett, Frank H. Heaven, Cecil Kennard, W. D. Lacey, G. M. Lawrence, Maurice W. Lee, D. L. Medd, George Newell, Anthony Pott, John T. Redpath and F. G. Southgate.

Management Committee

This will deal with office and job organization; check-lists; programming; cost planning; communications; office methods and machinery, etc. Members are: J. M. Austin Smith, Peter Bosanquet, C. H. Elsom, G. C. Fardell, R. O. Foster, D. E. Gibson, A. J. Gordon, Sydney Greenwood, Arthur J. Hall, Denis Harper, R. Baden Hellard, Alick Low, John Radford, W. A. Singleton and Thurston M. Williams.

Design and Planning Committee

This committee was formerly Town and Country Planning and Housing Committee. It will now largely drop responsibility for housing. The design element is introduced so that the committee can deal with those questions with a strong design content which are periodically referred to the R.I.B.A. Members appointed are: Grenfell Baines, Colin D. Buchanan, Clifford Culpin, Peter Dunham, Harry Durell, H. S. Howgrave-Graham, P. E. A. Johnson-Marshall, Arthur G. Ling, Gordon Logie, Eric Lyons, J. A. H. Mottram, John Radford, Thomas Sharp, Peter F. Shepheard, W. E. Tatton Brown and Leonard Vincent.

Professional Relations Committee

This is simply an amalgamation of the salaried architects' elements in the Ad Hoc Committee and the long-established salaried and official architects' committee. Members appointed are: Denis Clarke Hall, Anthony W. Cox, A. G. Sheppard Fidler, S. Vincent Goodman, W. F.

NEWS CONTINUED

Johnson, S. A. W. Johnson-Marshall, W. D. Lacey, Gwyn H. Morris, W. H. G. Salmon, M. H. Shepheard, F. G. Southgate, W. E. Tatton Brown, R. W. Toms, Thurston M. Williams and one representative of the 1.P.C.S.

Appointment and Conduct of Committees

The following principles governing committee work have been agreed:

(a) No standing committee should have fewer than three council members on it, and the major committees should normally have more.

(b) Either the chairman or hon, secretary of every committee should be a member of council.

(c) Committees should normally be about 12 strong, occasionally 15, and larger than this only with the president's agreement.

(d) A committee member's term of service should normally be not more than three years. Committees should be reviewed annually with an eye to keeping a proper balance between continuity and a healthy turnover.

(e) Committees should consist of the best available men for the subject in hand, rather than "representatives" of particular interests (with certain obvious exceptions). They are essentially working groups with an executive arm and a practical end in view, as distinct from an open forum for extended discussion.

(f) Committees should meet only when business justifies

(g) Ad Hoc and formal sub-committees should be kept to the minimum.

(h) All committees should be entitled to co-opt up to three members without further reference to the council.

Faculty of Architects and Surveyors Dinner

The annual dinner and ball of the Faculty of Architects and Surveyors at the May Fair Hotel last Friday was well attended and festive. The toast to the Faculty was proposed by Capt. Lord Teynham, D.S.O., D.S.C., R.N.(RETD.), Lord-Lieutenant of the City of London and Deputy Speaker of the House of Lords, and this was responded to by the Faculty's president, Sydney Clough, F.R.I.B.A., A.R.C.A. Other speakers were: G. C. Fox, P/P.F.A.S., L.R.I.B.A., M.INST.R.A., and J. E. Guest. Among principal guests were: Sir Alfred Bossom, BT., Howard Lobb, C.B.E., F.R.I.B.A., chairman of A.R.C.U.K., and David Benton, resistrar of A.R.C.U.K.

The New Narrows Bridge, Perth, Western Australia, was opened last week. The consulting engineers were G. Maunsell & Partners, the design consultant for deck structure was E. W. H. Gifford, the consulting architects were William Holford & Partners, and the contractors were Christiani & Nielsen Ltd.



R.I.C.S. President's Address

J. L. Postlethwaite, the new president of the Royal Institution of Chartered Surveyors, delivered his presidential address at the first ordinary general meeting of the session last week.

Mr. Postlethwaite referred to the close liaison between his Royal Institution and Estate Agency, mentioning three

recent developments.

First, there has been an investigation of the Committee Organization of the Institution, and, secondly, the council set up a committee to examine and report upon the position of Estate Agency, the third, which relates to a review of the education policy, is still proceeding. The results, however, of the first two of these investigations had been briefly summarized in two announcements this year. The first announcement related to the setting up at headquarters of a General Practice Committee with subsidiary "panels" representative of town planning, building, housing and urban management and valuation and rating.

The second announcement referred to the decision to make a special provision for the representation of Estate Agency in the committee structure at headquarters, and it said that it was the intention of the council that the new General Practice Committee should be charged with special duties in regard to Estate Agency in addition to the other activities already mentioned, activities which also fell within the normal sphere of many general practitioners, private and public. Mr. Postlethwaite made it clear that in thinking of "Estate Agency", the council had it in mind that this term properly covered the functions of selling and buying and letting and taking on lease of land or buildings.

Town and Country Planning

Continuing his address Mr. Postlethwaite said:

"To the surveyor in general practice and to those responsible for the planning of land use, the Town and Country Planning Act, 1959, was the most important legislation of the year.

The act restores the open market value basis of compensation for the compulsory acquisition of land in cases where notice to treat is served after October 29, 1958. Gone, it is hoped for ever, is the artificial assumption that compensation should be resticted to existing use value. The dispossessed owner of an interest in land is again to be compensated properly for loss suffered.

"The new code chiefly affects land which possesses potential value due to the prospect of development, so that fully developed and under-developed land are accorded similar treatment. But even this might not be considered as the ultimate answer. There is a growing body of responsible opinion that although open market value may produce fair compensation for properties held for investment purposes, the code frequently does not properly compensate an owner-occupier who is forced to reinstate himself elsewhere.

"Perhaps in cases of hardship the solution might be along the lines of section 42 of the Liverpool Corporation Act, 1957, which provides: 'The Corporation shall pay to any person displaced from any land acquired under this Act in the county of Merioneth such reasonable allowance as the advisory committee may recommend towards any loss or in respect of any personal hardship or disturbance which in their opinion he will sustain or be put to by reason of his having to quit such land.'

by reason of his having to quit such land."
"We will watch with great interest the working of what I call the 'five year rule', whereby additional compensation may be claimed where an acquiring authority obtains permission for additional development within that period. I am somewhat apprehensive that the large number of exclusions may defeat what was thought to be the object of this provision.

of this provision.

"The attempt to deal with the 'dead hand' on owner-occupied property threatened by compulsory acquisition only touches the fringe of the problem. The limit of the £250 net annual value qualification to require an

authority to purchase in advance of requirements will, in my opinion, prove to be too restrictive. Certainly the 'dead hand' may lie as heavily on those above as those

below this arbitrary low maximum.

"The 1954 Act basis of compensation payable in respect of planning refusal to permit development remains undisturbed. This is a matter which it is not possible to cover in my address but it is clear that the pegging of compensation to 1947 values will demand a very searching examination.

"And so the 1959 Act is welcomed not only for the very necessary changes which it has effected but also for underlining much that required further thought and

action."

Urban Renewal

"In redeveloping a city centre", Mr. Postlethwaite said, "there are many problems of engineering, aesthetics, and economics to be solved before rebuilding can begin; but there is usually little difficulty in getting the rebuilding carried out—because it is financially attractive. The rents that can be obtained for commercial and industrial development usually make the new scheme an economic proposition—and the surveyor is the key man in seeing that the best economic return is derived. But the ring of obsolete or obsolescent property which surrounds most of our city centres presents a different problem. It may be financially less attractive, and the splitting of ownership may make it difficult to assemble the land in viable units. Here is a real headache, for which surveyors are perhaps best qualified to find a remedy. We have a long experience in estate management and development, and here is a pressing problem in that field. It was brought into prominence at the Chartered Surveyors' Annual Conference this year during our discussions on the economics of land development-and it was spotlighted as something which must be tackled soon—unless we are to accept that the only workable solution is to hand the whole task over to subsidized public enterprise. I believe that private enterprise still has an important contribution to make to land development and redevelopment in this country, and we have a duty to assist that contribution in the same way as we have played our part, as surveyors, in the many public works that have been undertaken since the war. It is for this reason that the institution has decided to foster research into this important aspect of land planning.

"In addition to its positive side, planning naturally has its negative or restrictive side... that is, we commend the recent statement by the Minister that he wishes to eliminate the 'crawl' from town planning, and to make it more positive and certain. From our knowledge of planning—both as planners and as advisers to the planned—we know how urgent it is to reduce delays, and to recreate the desire and the respect for good town planning. In the meantime, planning is making great strides, and chartered surveyors are playing a great part in it."

Awards for Bradford Architects

Two Bradford architectural assistants, Harry E. D. Moon and Stuart Mosscrop, both employed by Samuel Jackson and Son, and part-time senior students at the Bradford Regional College of Art, have won major awards in the annual competition of the West Yorkshire Society of Architects. Mr. Moon has won the Girling Scholarship, value £50, and Mr. Mosscrop, the Bedford Scholarship, value £75.

Appointments

Mr. Stuart Bentley, chief architect of the Dunlop Rubber Company, has been appointed consultant architect to Semtex Limited.

Mr. Harvey G. Frost, O.B.E., has been elected chairman of the building industry's National Joint Apprenticeship Board, the standing committee of the National Joint Council. Mr. Frost was president of the National Federation of Building Trades Employers in 1955.

L.C.C. Planning and Building

During the six months April to September, 1959, the Town Planning Committee dealt with about 15,000 applications under the Town Planning and Building Acts. In addition, 517 dangerous structures were dealt with; 657 certificates granted or requirements made under the Factories Act, 1937 (means of escape in case of fire), and 35 new petrol stations approved. 113 appeals were made to the Minister of Housing and Local Government against the L.C.C.'s decisions on planning application; in 85 cases the council's decision was upheld. Action for the enforcement of planning control was taken in 39 cases.

House Improvement Rate Doubles in Six Months

Mr. Henry Brooke, Minister of Housing and Local Government, announced in London last week that although the new system of grants for improving older houses came into force only in June, the number of houses approved for grant this year is likely to be more than double the yearly average hitherto.

Mr. Brooke, who was addressing local authority and other representatives before opening a demonstration at Walthamstow of houses improved with the aid of these

grants, said:

"I want to announce that up to date the public response to the new opportunities created by the 1959 Act has been excellent. It only came into force in June, but as against an average of 35,000 a year up to now, the number of houses approved for grant this year looks like being over 70,000. The results for 1960, which will be the first full year, should be better still.

"Of the five improvements for which standard grant can be given, the biggest demand from private house-owners so far is for grants towards hot water systems, wash-hand basins, and baths, in that order. There are similar grants available to local authorities who have old council houses

or flats that need to be modernized.

Coming Events

Royal Institute of British Architects.

November 18, at 6.30 p.m. Discussion on Electric Floor Heating. At 66 Portland Place, W.1.

The Faculty of Architects and Surveyors.

November 18. Day visit to the I.C.I. Works at Welwyn Garden City.

The Yerbury Foundation.

November 19, at 6.30 p.m. From Idea to Finished Structure—An Examination of Communications. Speakers: Sir Thomas Bennett, K.B.E., F.R.I.B.A.; A. Hudson Davies, O.B.E.; W. James, F.R.I.C.S.; J. M. Gillham, M.C., F.I.O.B. At the T.U.C. Hall, Great Russell Street,

The Ecclesiological Society.

November 21, at 3 p.m. Visit to Church of St. John, at Hackney-recently restored by Cachemaille Day.

Royal Society of Arts.

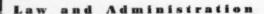
November 25, at 2.30 p.m. "Power Production and Transmission in the Countryside: Preserving Amenities", by Sir Christopher Hinton, K.B.E., F.R.S.; and Sir William Holford, F.R.I.B.A. At John Adam Street, Adelphi, W.C.2.

B.B.C. Network Three. "Building Matters".

November 24, at 7 p.m. The Building Exhibition as seen by a builder, Robert Hudson, and an architect, Edwards Mills; "Plant for the Small Builder", by M. Langley, and a review of technical books.

The Institution of Structural Engineers.

November 26, at 6 p.m. "A Commentary on the New British Standard 449 (1959). The Use of Structural Steel in Building", by John Mason. At 11 Upper Belgrave Street, W.1.



Development Plans

The Devon Development Plan has received the approval, with modifications, of the Minister of Housing and Local Government. This approval brings the number of approved plans to 142, leaving 18 plans still to be approved.

Superannuation

The Minister of Housing and Local Government has published Circular 51/59 in which he describes and introduces the Superannuation (Local Government, Social Workers and Health Education Staff) Interchange Rules, 1959. These rules supersede similar rules made in 1949. "The new rules take account of changes which have been made in the law relating to local government superannuation since the rules of 1949 were made. To this extent they follow similar provisions in other inter-change rules with which local authorities will already be familiar.

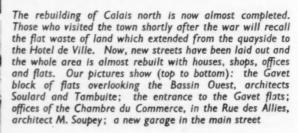
The Ministry point out in the circular that these rules, which are one more move in making staff interchanges more easy and smooth to achieve, introduce one or two other small changes which the circular enumerates.

Professional Council

The Architects' Registration Council have done a useful service in drawing attention to a recent matter before them. The committee of the council have considered a complaint from a firm of solicitors who complained of the conduct of a firm of architects whose assistance they had sought in an action for professional negligence.

As a normal part of the action the solicitors sought the professional advice of the firm of architects concerned. The firm consulted not only made a report on the matter for which their advice was sought, but also sent to the other party in the action, namely, the firm of architects being sued, a copy of their report together with copies of all the reports furnished to them by the solicitors. When taxed with the fact that they had made these disclosures to the other side, the architects claimed that under the R.I.B.A. rules they were compelled to send copies of the reports to the architects against whom the allegations were being made.

The solicitors complained that the architects in question had been guilty of a gross breach of professional confidence. The committee of the council stated that they regarded the conduct complained of to be the result of a mistaken interpretation of both the R.I.B.A. and A.R.C.U.K. Codes (Clause II and Principle VI, respectively) and have instructed the Registrar to inform the architects concerned that they had misinterpreted the code, and that not only, in the circumstances of the case, were they under no professional duty to send copies of their reports to the architects being sued but in fact in so doing they had acted in breach of confidence to their clients and contrary to Principle I.











OXFORD CONFERENCE: DECISIONS AND REPORT

At the R.I.B.A. Council Meeting on October 6 the report of the Committee on the Oxford Architectural Education Conference was considered, taking into account comments by the Board of Architectural Education. We print below the Council decisions and the substance of the Committee's report, excluding the appendices.

Council Decisions

- 1. That the standard of entry should be raised to a 2 "A" level (approved by the Council on 10/3/59).
- 2. That the possible effect of this on existing centres of training should be made known (paras. 6-14).
- 3. That the University Grants Committee should be made aware of the effect of these changes (para. 21).
- 4. That the Council should appoint a Committee to put forward proposals for an approved form of training for technicians and technologists (paras. 22-30).
- 5. That the scope of post-graduate training and research be reviewed by the holding of a Special
- Conference of Heads of Recognized Schools and other interested persons. 6. That the Constitution of the Board of Architectural Education should be reviewed, that the Board
- should become the Advisory Council on Architectural Education, and that a Board of Architectural Education, consisting of 12 to 15 members, should be appointed by and report direct to the Council, all the executive functions of the present Board being transferred to the new (executive Board).

Conference Committee's Report

THE Committee met on ten occasions. It has heard evidence from a number of sources, has been supported by several sub-committees and has been greatly assisted by statistical surveys carried out by the staff of the Institute. Although its work could clearly have continued and could have become a lengthy and detailed study, the Committee has taken the view that its task is to make a few necessary and urgent recommendations as quickly as possible, and these are set out below:

The Raising of the Standard of Entry to the Profession and its Implications (a)

- 1. The Oxford Conference unanimously recommended that the minimum standard of entry should be raised. The Council supported this view. So far as we can judge, there has been no substantial opposition to this idea throughout the profession. The Oxford Conference Committee has therefore considered the desirable level for the standard of entry into the profession, and, after hearing a considerable amount of evidence, has recommended to the Council that the minimum standard for Probationer-ship of the Royal Institute should be the General Certificate of Education in five subjects, two being at 'A' level.
- 2. Although opposition to the raising of the standard of entry has been negligible, some doubts have been raised about the effect of this on the size of the profession. has been suggested, for example, that numbers might rapidly decrease and that this might prevent the profession from playing its full part in relation to the national building programme.
- 3. We have consequently examined this question of the effect of a reduced entry on the size of the profession. The Committee has collected evidence relating to the present intake and has had the advantage of studying a statistical forecast to show future trends. The chart (Fig. 1, page 462) shows the long-term trends in the profession (a) assuming an entry of 900 a year, and (b) assuming an entry of 500 a year. 900 a year represents an approximate number of page 1000 and 1000 a year. mate number of new entrants on the basis of present standards of entrance and training. 500 a year represents

- the number at present passing out of the Recognized Schools, and it is possible that this number may be expected in future to qualify on the basis of the higher standards of entry that are proposed.
- 4. The chart shows that if the annual intake is reduced to 500 a year the number of corporate members of the profession would still go on increasing, although very slowly (from 18,400 to 21,500) for the next twenty years. Thereafter, a slow decrease might be expected, bringing the total level to 19,000, i.e., still more than the present level, by the turn of the century. It cannot therefore be assumed that an increase in the standards of entry will reduce the total membership of the profession.
- 5. We are aware that it is possible to argue that the maintenance of the present size of the profession may not be adequate and that the profession should be associated with a far higher proportion of building work than it is at present. We do not consider that this is a question for our particular Committee. We are concerned to show that numbers will not fall: but if it is proved in practice that the profession must expand, we see no difficulty in meeting this requirement by an expansion of the facilities for education at the higher level we now propose.

The Effect of Raising the Entry Standard on Existing Schools (b)

- 6. The more far-reaching effect of the new entry level will almost certainly be the redistribution of numbers within the school system. At present there are three types of school which give some form of training to architects:
- (a) 28 schools recognized for exemption from the R.I.B.A. Final and Intermediate Examination;
- (b) 9 schools listed for full-time preparation for the R.I.B.A. examinations;
- (c) 37 schools with facilities for the instruction of intending architects.
- 7. In order to see more clearly the effect of increased standards of entry on these schools, we have considered the results of a survey of student distribution and standards of entry. Working on the averages of the last

OXFORD CONFERENCE

three years, the educational qualifications of first year students in various schools can be set out as follows:

Recognized Schools

8. All students for the Degree course in the Recognized Schools had two or more 'A' level passes. 24 per cent or nearly one in evrey four students of the Diploma courses had two or more 'A' level passes; 13 per cent had one 'A level pass; 63 per cent or nearly two-thirds had no 'A' level passes.

Listed Schools

9. Only the occasional student had two or more 'A' level passes; 5 per cent had one 'A' level pass; 95 per cent had no 'A' level passes.

Facility Schools

10. The position here is similar to that for Listed Schools; 95 per cent of all students were without 'A' level passes.

11. The effect of this is clear. The new standards of entry having been accepted, it seems likely that the Listed Schools and Facility Schools will suffer a considerable loss of students. It seems reasonable to assume that students with two 'A' level subjects will attempt to secure places at Recognized Schools. They may well be of a calibre that will enable them to compete for a University of Local Education Authority award, and it seems possible that they may be prepared to enter any Recognized School where places are available.

12. We consider it likely that the intake of students with two 'A' levels into Listed and Facility Schools will be neglible, that these schools will be left with only those students who are already committed to part-time and evening courses at the old levels of entry, and that these students will have passed out of the schools within the next seven or eight years.

13. It also seems reasonable to conclude that the demand for R.I.B.A. external examinations will be progressively reduced and that at some future date the possible abolition of these examinations should be considered.

14. We think that the R.I.B.A. should take some action to bring these matters to the notice of the schools and local authorities throughout the country. We have in mind possibly a letter from the President, or the Chairman of the Board, which would explain the desire within the profession for higher standards of entry and training, and

which would outline the possible effects of the increased entry level. Such a letter might also mention the need for other forms of non-architectural training as discussed in Section (c) of this report.

15. If our assessment of the effect of the new two 'A' level standard on the redistribution of student population in the schools is a correct one, the ease with which this can take place will depend on the capacity of the Recognized Schools. The improved standard of training which we expect will be measured by the facilities for the development of courses which these schools can offer.

16. There are at present 28 Recognized Schools of Architecture; 24 with Final recognition and 4 with exemption from the Intermediate Examination. The number of first-year students at these schools in 1958-59 was 730 fulltime and 184 part-time. Recent recommendations for Final recognition from the list of Intermediate Schools brings us very near to 'Final' recognition for all schools. This was one of the recommendations of the Oxford Conference and if, as we expect, the two 'A' level standard will bring the majority of students into these Schools another 'Oxford' recommendation will have been achieved.

17. The ability of the Recognized Schools to provide the number of places necessary to meet the future demands of the profession should not therefore be a problem. Equally, there seems no reason to think that they would fail to attract an adequate number of students with the higher entry standard, bearing in mind that in 1957 there were about 45,000 leaving school with two or more 'A levels and that this total is expected to be doubled by the mid-1960's.

18. The manner in which they can improve the standards of training is not so obvious. The schools are established in differing types of institution: 9 are in Universities, 13 are in Colleges of Art, 4 are in Technical Colleges, 2 are independent institutions.

19. We do not think it is part of our remit to suggest forms of training. Indeed we consider that the function of the R.I.B.A. Board of Architectural Education is to concern itself with the essential standards of education required for admission to the Register. The means by which these standards are achieved is a matter for the schools. A criticism of existing systems may be that they conform too much to type. It is in our view highly desirable that systems of education should vary, and that schools should develop their own special characteristic interests, which may be much wider than the scope of the standards required by professional examination.

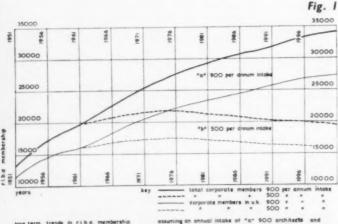
20. There are, however, certain desiderata which seem to us to be important for the development of courses in architecture in any school. These are:

(a) That schools of architecture should be staffed mainly by practising architects of distinction or those who are advancing the knowledge of architecture by research.

(b) Courses of training can only be developed intensively if they are supported by specialist lecturers in certain fields: links are desirable with engineering, science, history and sociology

(c) Studies in architecture should lead naturally to advanced or post-graduate study, and work of this kind should be an essential component of any school of architecture.

21. It is within Universities or in institutions closely associated with Universities that all these requirements can be readily fulfilled.1 Twenty of the 28 schools of architecture are in University towns, and this number may increase as new Universities develop. We consider that the University Grants Committee should be made aware of the importance of establishing architectural education within the University educational system and of the value which we place on this from the point of view of the future of the profession.



long term trends in r.i.b.a membership

¹ The case of London with several Schools of Architecture needs special consideration and offers the opportunity for experiment with different forms of organization. We consider it important to the future of architectural education that this should be recognized.

The Need within the Profession for Technical Assistance (c)

22. The Oxford Conference Resolution stated that if standards of entry were raised, intake might diminish, and it might be necessary to consider the development of a second category of staff for offices. Examination of this matter in detail has made it evident to us that something of the sort not only does already exist on a considerable scale, but that it would be very desirable and to the profession's advantage to clarify and develop it, with certain clear objectives in mind. The original Resolution caused some confusion. The term 'second category' was presumed to refer to a lower tier of architects. This must be corrected.

23. It is not the intention to create a second-grade class of architects. The Committee has simply attempted to recognize the facts that exist. At present there are 10,000 unqualified assistants in the United Kingdom, and 5,000 of these are not bona fide students. The estimate is rough but, allowing for a margin of error, it confirms beyond doubt that throughout the country as a whole the unqualified assistant is widely used. Moreover, it is argued by many that he performs a valuable service in an office organization.

24. We have conducted a survey in order to try to find out something more about the distribution of assistants of this kind in various types of office and the ways in which they are used. This survey confirms that in many offices these assistants support the architects with working drawings, site investigation, site supervision, draughting, etc.

25. It seems clear that this type of assistant is not qualified as an architect, nor is he expected to take the full overall responsibilities or the final decisions of the qualified architect. He is a technician, who assists on what might be described as the 'production' side of building. This specialization of labour would be clearly understood in other industries where overall decisions made at the design stage are frequently put into the form of production drawing by technicians.

26. We have had evidence to show that architects are divided in their views on this matter. Some would hope to staff their offices mainly by qualified men with assistance from architects in training. Others would wish to have technical assistance of the kind described and would wish to see their contribution developed by an effective form of training. Both forms of organization will continue; but if the second form exists it seems proper to recognize the fact and to ensure that there is an appropriate form of training for the assistant which will not be confused, as it is at present, with the training of the architect.

27. What should this form of training be? We are satisfied that it should not be a second-grade form of architectural training. The technical assistant is concerned with 'production' and his training should be given this kind of emphasis. The study of 'production' is not one which is confined to the profession. The building industry as a whole has an increasing need for the skilled technician and, at a higher level, for the technologist who is an expert in certain specialized subjects. There are here, in our opinion, careers which would carry with them a good standing and which are at the same time of great importance to the development of the industry. It is thus possible to envisage a course which could be of mutual interest to the architectural profession and to the building industry.

28. We consider that it would be helpful if the form of training could be a development of existing courses. We have examined various possibilities and we have come to the conclusion that the form of training given for the National Certificates and Diplomas in Building could form the basis of a suitable course. It is emphasized that this course will need readjustment to meet the special needs we have in mind.

29. We attach (see footnote*) a list of subjects which might be included in such a course. We consider that training might take the form of a four-year sandwich course, involving at least a year of full-time training, to reach the technician level. It will be seen from these proposals that this form of training makes no attempt to produce an architect. It concentrates, in the first place, upon those aspects of building which would help to train an efficient and knowledgeable technical assistant in an architect's or a contractor's office. A further two years of advanced study (one of which must be full-time) could lead to a professional qualification as a technologist. The break at the technician level would provide an opportunity for the transfer of an exceptional student to a course of training as an architect. Such a student would be expected, in addition to his normal studies, to satisfy the standard of the new R.I.B.A. entrance level.

30. We wish to submit:

(1) That there should be an approved form of training for building technicians and technologists for work in architectural offices.

(2) That the courses for Ordinary and Higher National Certificate and Diplomas in Building should form the basis of such a training, but these would have to be remodelled to provide training in subjects required for those who wish to enter an architect's office.

(3) That the Council be asked to appoint a Committee to implement these proposals and to consider any constitutional issues which might result from the action proposed.

31. Some provision must be made for such people to come together in an organization which can give them formal status, ensure their professional efficiency, discipline, and standards, and give them a means of intercommunication for the continuing development of their proficiency. We have not considered what form this organization might take, but have noted arguments against having it within the Institute in any way which could cause confusion in the public mind, and arguments also that the Institute must have some influence on and formal links with whatever organization is created. The Committee we propose should consider this matter, and take into account at the same time possibly, similar problems and interests in other professions using drawing offices.

Post-graduate Training and Research (d)

32. The Oxford Conference regarded post-graduate work as an essential part of architectural education. It endorsed the policy of developing post-graduate courses in order to enlarge the range of specialist knowledge and to advance the standards of teaching and practice.

33. At the present time there is an acute shortage of architects with certain special skills. To meet the needs of the national building programme many new research, development and administrative groups have been set up by public and private authorities in the last few years. It is common knowledge that the great obstacle to the effective development of the work of these groups is the shortage of architects with the necessary special knowledge and skill to man them. At present the only source of recruitment is from similar units already established, in which architects have been trained by experience. This process is too slow to be effective and must be supported by organized post-graduate training.

34. At the same time it is evident that schools of architecture also need a proportion of such architects for teaching and research, for it is clear that specialist knowledge of high standard must now be firmly built into architectural education, and that the capacity to make advances in knowledge must be substantially strengthened.

^{*} Mathematics, Geology, Materials and Building Science, Soil Mechanics, Structural Mechanics, Theory of Structures, Structural Design, Construction, Services and Equipment, Surveying, Workshop Technology, Geometry and Drawing, History of Building, Building Analysis, Law, Quantities, Accounts and Estimates, Building Finance, Site Organization, Management, Industrial Production.

OXFORD CONFERENCE

35. Post-graduate work may take either of two forms: (1) attendance at organized courses of instruction of a character more advanced and more specialized than that given to undergraduates; (ii) participation in research work.

36. Some organized post-graduate courses of instruction already exist, both in this country and overseas.2 Courses of this type should be directed towards providing a special skill beyond the range of undergraduate training. Examples of the subjects in which didactic post-graduate courses have been, or could be established include the tropical problems, design in relation to lighting, heating or acoustics, special forms of construction, office administration, and so on. It would also be possible to organize postgraduate courses focused on the problems of a particular building type such as hospitals, factories or schools. of this sort would prepare architects for responsible positions in administration or development groups, and also perhaps for teaching. It is worth noticing that these courses would generally require the support of specialists from fields other than architecture. It would be necessary to draw on teachers in the physical, physiological and social sciences, and in some cases courses might require the use of accommodation or facilities from departments other than that of architecture.

37. It is important to devote a proportion of post-graduate effort to training for research, for it is only by this means that effective research teams can be built up. The problem of building up research teams and establishing the tradition of research in Universities is an urgent one for the profession. It is important to realise that in the architectural field (apart from historical research work) there is no postgraduate research which is even remotely comparable with that which exists in Engineering for example, or the Sciences. Until last year no single School of Architecture had ever received a D.S.I.R. Research Scholarship or Grant. Yet the problems which call for continuous and extensive study are from a national point of view of immense importance. The study of residential density, to take only one example, might well affect the need to move the homes of thousands of people: it might certainly lead to reconsideration of general policy of town development. The study of building types is another form of work which could almost certainly lead to major building economies.

38. The promotion of this form of research team project will need a considerable effort and almost certainly cannot be carried on without substantial financial support. The invaluable financial assistance which has been provided, for instance, by the Nuffield Foundation for the establishment of architectural research projects in the Universities of Edinburgh and Cambridge, and Pilkington Brothers in the University of Liverpool, is an important first step. We consider that the R.I.B.A. should take positive action to build up funds for research, and that consideration should be given to broadening, for the purpose, the use of certain funds which are now available as post-graduate bursaries.³

39. Apart from major team projects, which are unlikely to be very numerous, there is also a field for post-graduate work of the type already established in many Arts faculties. This is usually one-man research, and is particularly appropriate in literary and historical subjects. We strongly support this type of study, which leads to a better understanding of history and to the advancement of the knowledge of architecture theory and we consider that Schools of Architecture should provide facilities for individual research of this kind. It may prove possible to extend this type of study into technical fields when suitable supervision is available.

40. It is natural and desirable that there should be

considerable differences between schools in the type of work they undertake. For instance, some types of post-graduate teaching and research will be best carried on in schools of architecture which are closely linked to engineering or scientific departments. Others will be most successful where a strong connection can be established with the social sciences or the arts. However, it is important that good general standards are established, particularly in relation to advanced degrees. Advanced degrees in architecture should set a standard at least as high as that normally expected in other disciplines.

41. We therefore recommend that at the present time, when many new projects for research and post-graduate work are under consideration, it would be most useful if the Institute called a Conference of the Heads of Recognized Schools and certain other interested people, to survey what is being done and to assist the establishment of effective research programmes, and to consider the question of sponsoring publications.

The Constitution and Work of the R.I.B.A. Board of Architectural Education (e)

42. The proposals in this report will require the detailed working out of a positive policy. The R.I.B.A. Board of Architectural Education is a large representative body, which by its nature cannot be called together very frequently. We consider that to implement the proposals in this report, and incidentally to meet the needs which have become increasingly apparent in recent years, for quick executive action and monthly reports to the Council, a smaller body, meeting at very regular intervals, will have to be created.

43. We therefore recommend that the existing Board of Architectural Education should become the Advisory Council on Architectural Education, meeting three times a year, and that a Board of Architectural Education of 12 to 15 members, all ex-officio members of the Advisory Council, should be appointed with power to take executive action, reporting direct to the R.I.B.A. Council.

44. All the executive functions of the present Board should be transferred to the new (executive) Board of Architectural Education, to be appointed by the Council and consisting of 12 to 15 members. This Board would take responsibility for all the duties of the present Board, and in particular for duties of the following kinds:

(1) To observe and review the effects of the raising of the standard of entry.

(2) To study and maintain the standards that are considered desirable at qualification level.

(3) To organize visits to schools and to assess results in relation to these standards, and to recommend the award or withdrawal of recognition.

(4) To investigate and sponsor architectural policies in connection with the training of technicians and technologists.

(5) To sponsor and strengthen:

(a) the exchange of ideas between schools

 (b) special advanced courses for the staff in Schools of Architecture

(c) research developments.

Oxford Conference Committee

The Committee were appointed by the Board of Architectural Education at their meeting on May 19, 1958. The following is the membership of the Committee:

PROFESSOR SIR LESLIE MARTIN, PH.D. [F]—chairman; MR. WILLIAM ALLEN [A], MR. G. GRENFELL BAINES [F], MR. D. H. BEATY-POWNALL [F], MR. KENNETH J. CAMPBELL [A], MR. F. CHIPPINDALE [F], MR. ANTHONY W. COX [F], MR. R. LLEWELLYN DAVIES [F], PROFESSOR R. GARDNER-MEDWIN [F], MR. D. E. E. GIBSON, C.B.E. [F], MR. A. ESMÉ GORDON [F], PROFESSOR DENIS R. HARPER, PH.D. [F], PROFESSOR R. H. MATTHEW, C.B.E. [F], MR. MICHAEL PATTRICK [F], MR. ROBERT J. POTTER [F], MR. E. M. RICE [F], MR. RICHARD SHEPPARD [F].

² A list is being compiled.

³ Bossom Research Fellowships; Florence Research Fellowships; Florence Architectural Book Scholarship.

⁴ We have collected a list of research work now being conducted in Schools of Architecture. This will form a useful preliminary document.

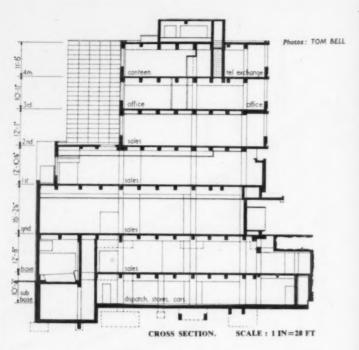


Photo: HENK_SNOEK

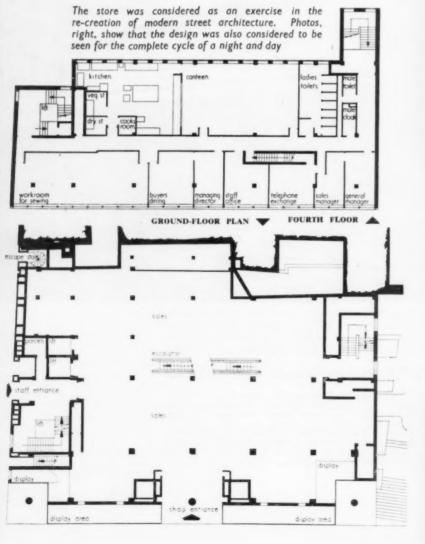
On the following pages we illustrate the most recent addition to store design in London. Built for Peter Robinson Ltd., on the site of the old Tivoli Theatre, it provides a new focal-point for shoppers in the Strand

DEPARTMENT STORE FOR PETER ROBINSON IN THE STRAND

Architect: DENYS LASDUN, of Fry, Drew, Drake & Lasdun.
Architect assisting: LYALL ADDLESON. In collaboration with
the Architects' Department, Messrs. Montague Burton Ltd.
Strand show windows and interior showrooms designed by
MISHA BLACK and ALEXANDER GIBSON, of the Design Research
Unit. External lettering: EDWARD WRIGHT. Structural
engineers: FREDERICK S. SNOW & PARTNERS. Quantity
surveyor: OSWALD E. PARRATT



PETER ROBINSON, STRAND





THE ARCHITECT and Building News, 18 November 1959

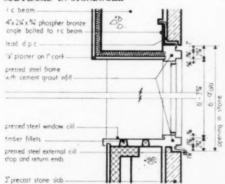
A NEW department store in miniature has been added to the Strand in London. Sited on a thoroughfare which has never had the fascination of Regent Street or Oxford Street for the shopper, it has already proved a commercial success and is attracting new prosperity to this area.

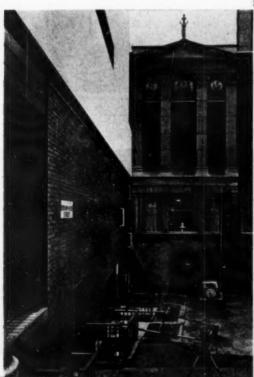
It will also attract anyone wishing to see a fine architectural statement within the undistinguished environment of the Strand.

Design

The main feature in the external expression of this store is a reinforced concrete screen wall clad in reconstructed Portland stone, which provides a strong horizontal element at first-floor level. It incorporates a continuous clerestory window, which allows for the maximum flexibility internally for display purposes. Upper floors of the main façade are entirely clad in pressed bronze sections, the windows having gold cellulosed surrounds. A bronze-covered vitreflex Continued on page 471

DETAIL OF PRESSED METAL SUB-FRAME IN STONEWORK

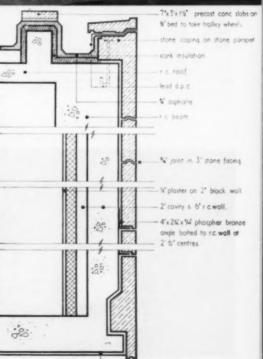


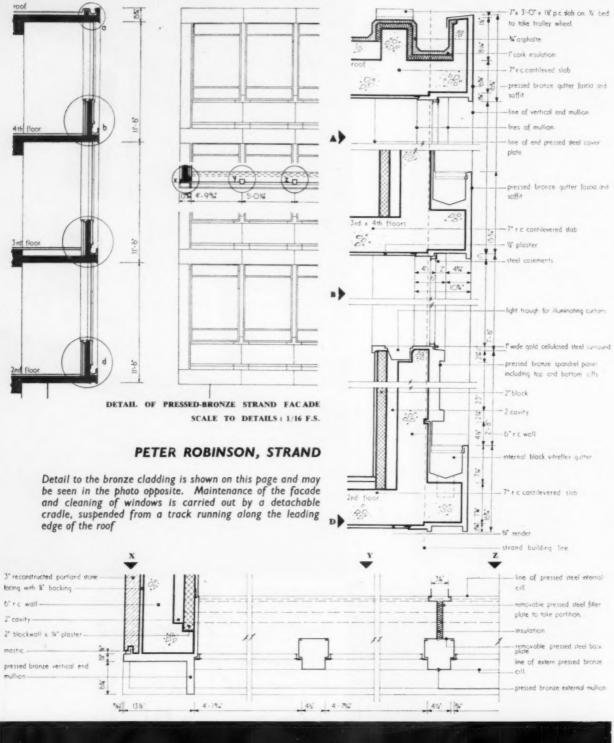




Above, seen from the adjoining Adam Street, a difficult basic form has been resolved into clearly defined and wellrelated elements. The two curved surfaces express lift shafts which terminate at the second floor. Detail of the stone cladding is shown right. On the other flanking wall, left, a brick podium has resolved the junction between the building and an extreme fall in the pavement











lead flashing
asphalte on screed laid to falls
4" rc upstand
pressed branze canopy fascia
7" rc contilevered slab
pockets for light fittings
fibrous plaster
space for future conopy blind
fibrous plaster downstand

Pavement level display cases, well protected from the weather by a generous canopy. A detail section through the cantilevered canopy is shown to the left



PETER ROBINSON, STRAND

Above, a corner detail showing the junction between the canopy, structure and projecting show cases. The glove department, below, illustrates the attempt made to provide a muted background to merchandise



THE ARCHITECT and Building News, 18 November 1959

Continued from page 467

gutter is integrated with the cladding on each floor to minimize the accumulation of dirt and to overcome bad weathering at pavement level. Window shoppers are protected from the weather by an illuminated cantilevered canopy throughout the whole length of the main frontage. Air doors are installed at the main entrance.

The curtains to each window on the upper three floors are illuminated by concealed lights housed in the pressed metal cills between each mullion. This, together with illumination to the soffit of second-floor slab and canopy, defines the form of the building after dark.

Display Windows

The Strand display windows are framed in stainless steel, with small areas of black-toned bronze; the white marble pilasters echo the marble which flanks the main entrance. The bases of the windows are deeply recessed and covered in polished black granite slabs. Corner windows are recessed and provide interesting views of the ground-floor sales area from the street.

The Entrance

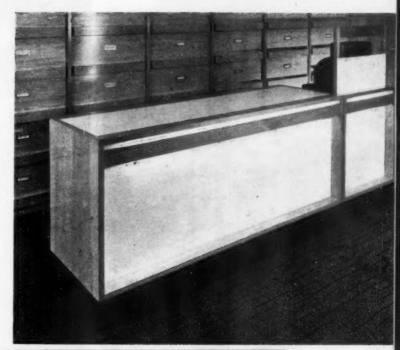
The store is entered centrally on the Strand front through "air doors". These dispense with entrance doors in any weather conditions, warm air being blown downwards and outwards through a grille in the ceiling and taken away through a second grille in the floor, washed, heated and recirculated. A range of glazed doors is raised to close the shop at night.

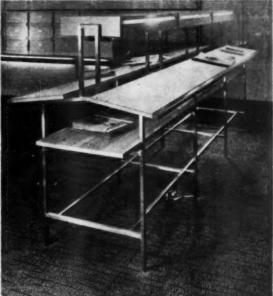
Interior Design

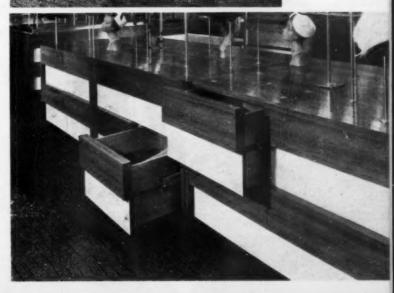
The building consists of four sales floors (lower ground floor to second floor) with two floors of administrative offices above and car park in sub-basement below. Sales floors are linked by two lifts and escalators and there are public and staff stairs serving all floors. Heating is by underfloor electric wiring throughout with an additional plenum warm air system up to first floor. The second floor and above have natural ventilation with additional local heaters in second-floor fitting rooms.

The sales floors are designed to provide as great an impression of openness as possible and to present a reasonably muted background to the merchandize. Floors are carpeted throughout, and all departments are serviced by a Lamson tube system with additional cash registers in some departments.

Three detail shots of fitments are shown right. Top, a paper pattern counter and cash register stand with storage drawers for stock at back. Centre, a lectern for use with patterns. Bottom, a drawer unit in the millinery department









Interior Photos : JOHN MALTBY



Top left, show cases situated at the top of escalators to the lower ground floor. Top right, jackets and skirts hanging fittings. Below, a general view of the blouse and knitwear department



General Contractors: HIGGS AND HILL LTD.

Shop Fitting Contractors:

Strand Show Windows: Courtney Pope Ltd. Lower Ground Floor: H. N. Barnes Ltd. Ground Floor: Harris & Sheldon Ltd. First Floor (Fixtures): Samuel Elliott & Sons (Reading) Ltd. First Floor (Movable Fittings): Frank W. Clifford Ltd.; Courtney Pope Ltd. Second Floor: Frank W. Clifford Ltd.

Sub-contractors and suppliers:

Sub-contractors and suppliers:
Asphalt: Rock Asphalte Co. Ltd. Piles: Pressure Piling Co. Ltd. Bronze Cladding to Strand: Morris
Singer Co. Ltd. Electrical Work: Troughton & Young Ltd. Escalators: Otis Elevator Co. Ltd.
Glazing: J. Hall & Sons Ltd. Heating and Ventilation: H. W. Dutton & Co. Ltd. Kitche
Equipment: Benham & Son Ltd. Lamson System: Lamson Engineering Co. Ltd. Lifts: Marryat &
Scott Ltd. Linoleum and Rubber Flooring: Lino Tile Co. Ltd. Metal Doors: Hall Engineering Co
Metal Partitions: Sankey Sheldon Ltd. Other Windows: Williams & Williams Ltd. Peinting:
South London Decorators Ltd. Plastering: J. R. Hooper Ltd. Plumbing: J. Martin (Brockley) Ltd.
Roof Lights: J. A. King & Co. Ltd. Sprinkler System and Fire Doors: Mather & Platt Ltd. Steelwork:
Sanders & Forster Ltd. Stonework: Empire Stone Co. Ltd. Suspended Ceilings: Campbell Denis
Ltd. Terrazzo Work: Malacarp Terrazzo Co. Rising Doors: F. Sage & Co. Ltd. Water
Pumping Plant, Chlorination Equipment and Storage Tanks: Le & Frand Adsco Ltd.



In the following pages 473 to 496 inclusive, brief details of products, and new ones in particular, are described under classified headings. The information has been supplied by exhibitors. The stand references refer to the list of stand positions published in last week's Exhibition Guide. A pull-out sheet, giving ground-floor plans and stand details on one side, and gallery plans and stand details on the other, is inserted between the two pages of advertisements which follow page 478. This plan of the Exhibition is published for the benefit of readers who may use it in conjunction with either last week's Guide or the Report which follows. Stand Positions:

Grand Hall (A1-L199); National Hall (M200-T279) and (T300-M333); Portcullis Avenue (T337-342); Empire Hall (Y344-Z358) and (Y360-U399); Grand Hall Annexe (L400-B492); Grand Hall Gallery (500-599); National Hall Gallery (600-683); Empire Hall Gallery (1st Floor) (700-783); (2nd Floor) (800-874)

ARCHITECTURAL METALWORK AND WROUGHT IRON PRODUCTS

Binns, A. J., Ltd. 40/B

Tubular cloakroom equipment, architectural ironmongery, anodized aluminium chain link fencing and various types of plastic-covered chain link and galvanized chain links are shown. One of the lever handles, the Dryad K.42.E was chosen in the Design Centre Awards for 1959, and was the only award for architectural ironmongery.

Gardiner Sons & Co. Ltd. 118/F

An adjustable staircase of three flights, with a varying angle of slope, but with each flight constructed from pressedmetal steps of the same size and shape is introduced on this stand. These stairs are claimed to accommodate any height at any required slope and may be supplied in quantity and not only to special order. Balustrades, lamp-posts and a hanging sign are examples of the firm's craftsmanship in working ferrous and other metals by many different techniques. Many metal finishes combined with other materials are on view.

Stand Designer: Mark Hartland Thomas, O.B.E., M.A., F.R.I.B.A., M.S.I.A.

Johnson, G., Bros. Ltd. 101/I

The exhibits include traditional and modern architectural metalwork, balustrades, bronze doors, grilles, nameplates, etc., the normal type of shopfront mouldings drawn on wood cores, in bronze, stainless steel and aluminium, fascia letters and signs. The Johnson louvre window for ventilating kitchens and bathrooms is also shown, as are transome and fanlight ventilation for shopfronts, with remote control and a quantity of small decorative rolled-metal sections applicable for interior décor, panel'ing furniture and cabinet work generally. New plastics and aluminium sections for shop fronts are exhibited.

Stewart Fraser Ltd. 60

Domi continental anodized shopfront and decorative trim sections available in silver, gold and bronze colours are introduced at the exhibition. Their shopfront metalwork and stainless steel trim sections for use in catering and so on are also shown. The stand was designed and fitted by the company's own shopfitting department.

ASSOCIATIONS, PROFESSIONAL AND DEVELOPMENT

British Iron & Steel Federation 742

A wide variety of sheet steel products are exhibited, a feature of which are the surface textures and finishes now available. Continuously "hot dip" galvanized steel sheets are displayed for roofing, decking, building components and deep drawn articles such as basins and drums. Plastic-coated steel sheets may be seen in partitions, lift doors and furniture and there is a demonstration curtain wall of vitreous enamelled steel. Stand Designer: Publicity Planning Ltd.

British Standards Institution 11/A

British Standard Codes of Practice, Specifications and building handbooks and information on the work of the Institution, may be seen and obtained. Stand Designer: Cyprien-Fox Ltd.

Coal Utilisation Council 200, 201, 202/M

A comprehensive display of the small pipe central heating system as used with solid fuel boilers for which the system was specifically designed by the British Coal Utilisation Research Association, and which was introduced at the last exhibition in 1957, is a main feature of the stand. A selection of the 700 appliances approved by the C.U.C. and the Solid Smokeless Fuels Federation are also shown. Informative literature will be available.

Stand Designer: T. Darcy Braddell, F.R.I.B.A., F.S.A.

Copper Development Association 248/O

The stand exhibition is designed to show the decorative value of copper and its alloys. Complete displays of plumbing services and a working model of a small-bore heating circuit may be seen and technical information and publications are available.

Stand Designer: A. L. M. McMullen.

Electrical Development Association 97, 98/E

The exhibits are designed to appeal mainly to architects and builders of private dwellings, with special emphasis on estate development for owner occupiers. Standards for adequacy of wiring and floor warming with cheaper electricity are the main themes. One section stresses a need for larger kitchens to

accommodate all the electrical aids recommended for a well-planned home and there will be a display of built-in equipment for conserving space.

Federation of Master Builders 532

The stand is a meeting place for the Federation's members and also for all architects, builders and members of the public who are interested in the stand and wish to ask technical questions. It is hoped to stimulate interest in membership. The stand's main theme is the demonstration of the new finishes to plasterboards and some panels form part of the structure of the stand. The designer has worked in co-operation with the Gypsum Plasterboard Development Association.

Stand Designer: Ronald Dickens, M.B.E.,

Fire Protection Association 506

The stand is a reception centre for architects, builders and all others who may be interested in fire protection. The association is non-profit-making and information on associate membership, which qualifies for a regular supply of advisory publications, may be obtained.

Gas Council 244, 245/Q

Whole-house heating, including one working example, small-bore central heating, warmed-air heating, heating appliances (gas and coke fires, boilers and stoves) water heaters and flue designs are displayed.

Institute of Quantity Surveyors 522

This is an information centre about the profession and includes careers guides. Publications of the Institute will be available and there is also an historical display of books, maps, prints, engravings, and various other documents. Technical and correspondence colleges which provide approved courses for the Institute's examinations are featured on display panels.

Stand Designer: Frank Turner Ltd.

Lead Development Association 138/G Particular attention is drawn to the services of the Lead Sheet and Pipe section of the association in the dissemination of information on the use and specification of these materials. Officers of the Technical Information Bureau are available to answer questions. Leadburning demonstrations and films are also part of the entertainment.

Stand Designer: John Pinckheard,

A.R.I.B.A.

Linoleum Manufacturers' Association 749, 750

The reception centre has a long display panel showing decorative possibilities opened up by the latest linoleum pat-terns and designs. The outside walls contain technical information panels showing gauges, methods of laying and completed schemes in contemporary architecture.

London Master Builders' Association

The LMBA clubroom, open to all members of the National Federation of Building Trades Employers and their friends visiting Olympia, is in the conference hall in the National Hall Gallery. Membership tickets may be obtained at the National Federation stand.

National Federation of Building Trades' Employers 584, 586

Some of the Federation's major activities are displayed and illustrated. Six back projection film screens show a wide range of the building industry's activities range of the building industry's activities and site organization; other exhibits show the consultative and administrative organization for smooth and efficient operation of the industry. Display panels show the aid offered to individual building firms in labour relations, advisory and consultative work and the dissemination of technical information, legislation and pensions. A chart shows the promotion prospects within the industry. Membership is open to all reputable firms.

Stand Designer: Kenneth Lindy.

Stand Designer: Kenneth Lindy, F.R.I.B.A., of Joseph Hill & Partners.

South Eastern Brick and Tile Federation

A wide variety of bricks manufactured various members of the Federation and hand-made and machine-made roofing tiles manufactured by some of the members are shown. Catalogues are members are shown. Catalogues are available and representatives of the Federation are in attendance.

Timber Development Association Ltd.

The T.D.A. exhibit concentrates on solutions to the problem of roofing for cross wall housing. Four solutions in timber have been developed—lattice purlins, plywood purlins, braced panels and end strutted purlins, and are illustrated by models (one-eighth full size), detailed drawings and photographs of structural testing. Developments in the use of timber shells and folded plates for cross wall roofing are also shown. Design sheets and other technical information on cross wall construction in timber are available for visitors to the stand available for visitors to the stand. together with research reports and technical publications on flooring, walling, plywood, timber structures, shell roofs,

Stand Designer: E. Levin, A.R.I.B.A.

Vitreous Enamel Development 142/H Council

A high-temperature enamelling furnace working at more than 1,400 deg F is part of a miniature plant demonstrating the

process of vitreous enamelling metal. Members of the council's advisory staff are on the stand to answer architects' problems relating to the design, speci problems relating to the design, specification and use of vitreous enamel in building. The construction of the "Double-decker" stand will demonstrate vitreous enamel panels in some unusual curtain walling. The end walls of the stand are constructed in "saw-tooth" units originally designed for use on the Russian Pavilion at the Russian Exhi-Russian Pavilion at the Brussels Exhi-

Russian Favinon Library 1958.

Stand Designer: Armstrong, Smith & Critchlow, A/A.R.I.B.A.

Zinc Development Association 27/B

Sheet zinc for roofing and weathering, galvanized and other zinc coatings for protection against rust, zinc alloy die castings and zinc rich paints are shown. The comparatively new use of galvanizing to protect structural steel is illustrated, the floor of the stand being supported on galvanized sections. Stand Designer: D.M.A. Designs Ltd.

BARROWS, LADDERS, PAINTERS' TRESTLES,

Drew Clark & Co. Ltd. 401/L

Patent sectional scaffolding "Rap-Rig"; "Diamond" extension and loft ladders; steps and trestles and a telescopic travelling platform are among the products

Lyte Ladders Ltd.

A comprehensive display of single and extension ladders, steps, painters' trestles, fruit-picking ladders, tripods, etc., including heavy-duty single-pole ladders and extension ladders up to 60ft may be seen on this stand.

Randall, Wm., & Co. (Horsham) Ltd. 100/E

A range of pole and extension ladders, steps and platform steps, trestles, paper hangers' tables, step stools and light-weight staging are shown. Stand Designer: Kenneth Price.

Slingsby, H. C., Ltd.

Barrows, ladders, painters' trestles, trucks and sliding stairway and loft ladders are shown.

Stand Designer: F. Austen & Sons.

BATHROOM FURNITURE AND FITTINGS

Downham, S. J., & Co. Ltd. 635

Both hanging and recessed types of illuminated bathroom cabinets, as well as linen bins and stools form the subject of this display.

BATHS, BASINS, SINKS, TAPS, ETC.

Adamsez Ltd. 110/F

Adamsez are showing a number of sizes of "Lotus" basins and rimless "Lotus" w.c. pans. Sinks, hospital equipment, and cisterns are also on view. Stand Designer: D.M.A. Designs Ltd.



No. 650 angle radiator valve by J. Barwell Ltd.

Barwell, James, Ltd.

16/A The firm's latest version of their "Deck" pattern sink mixer, valves and other sink and bath fittings, some of which have been approved by the Council of Indus-trial Design, are being shown.

Bilston Foundries Ltd.

Bilston are showing a selection from their range of baths and heating appliances, including the Princess, a model hitherto reserved for export, with a rim wide enough to form a seat. Other exhibits include inset openable and free-standing convector fires and the Bilston 30P solid fuel heiler.

30R solid fuel boiler.

Stand Designer: John and Sylvia Reid, A/A.R.I.B.A., F/F.S.I.A.

Bourner, F. H., & Co. (Engineers) Ltd.

This stand features the products of two companies of the Bourner Organization including the new Spitmatic cartridge-operated fixing tool with a new safety device whereby the firing mechanism is not cocked until the trigger is pulled. The other ranges of products are water fittings with a large selection of running taps including the Supatap range and an addition to the Spa range of taps and mixers. mixers.

Fernberg Products

Fibreglass baths and sink tops are included in this display of toilet and sani-tary ware, tiled surrounds and sink units.

Leeds Fireclay Co. Ltd. 136, 137/G

A selection of fireclay and vitreous chinaware including basins, drinking fountains, closets, kitchen units, taps and other sanitary equipment are shown. Faience slabs made to the company's abstract design are displayed on the front of the stand.

Rownson, Drew & Clydesdale Ltd.

The "Courtware" blue bathroom suite and "Kitchen" sink and cabinet are features of this stand. Also on show is the Lockset and bottle trap.

H.3.PR hydraulic tube bender by Tubela Engineering Co. Ltd.



Shanks & Co. Ltd.

160/H

This selection of sanitary fittings, available in various colours, includes baths, pedestal and other washbasins, water closets and various bathroom accessories. as well as a shaped cabinet and earthenware fittings for building into walls. Hospital fittings shown are: a revolving post-mortem table in stainless steel with draw-off tap and aspirator and douche the Neon surgeon's handspray; basin in vitreous china with foot action, anti-scalding supply fitting, and standing tube waste, and an infant's bath in fireclay with anti-scalding supply fitting.

Thermo Plastics Ltd.

Reinforced glass fibre sheeting, baths, washbasins, sinks and draining boards in Perspex and decorative glass fibre laminates for constructional purposes are displayed.

BENDING, BAR CROPPING AND SPACING MACHINERY

Hilmor Ltd.

Hand-operated and hydraulic bending machines for the plumber, electrical con-tractor, gas fitter and allied building

trades are shown.

New: The RP5A portable bender with mandrel attachment to produce round, full bore bends completely free from flattening and throating. Stand Designer: Olympia Ltd.

Kennedy, W., Ltd.

456/E

Bending machines, power- and hand-operated, power and hand barcroppers, and power hacksaws, with a capacity of up to 3½in are shown and include a new 3.5in portable power saw which is exhibited for the first time. It may be supplied with a petrol or electric motor.

Stand Designer: Earls Court Standfitting Co. Ltd.

Lawler, Ayers & Co. Ltd.

Three new machines are introduced—the Laco Junior Master, and Laco Master portable bending machines, and the Laco Super Midget Bender; and there is also the Laco abrasive cutting-off machine. The general range of pipe benders up to 2in capacity, the hydraulic line bender for beauty gauge materials. 3in bender for heavy gauge materials and hand-cutting tools, vices and stands are also displayed. Stand Designer: Barrett & Co. Ltd.

Tubela Engineering Co. Ltd. and Hainault Engineering Co. Ltd. 721, 722

A new model industrial oil heater (up to 100,000 B.Th.U./hr) is introduced. Oil heaters, free standing or ducted, sheet metal ducting, tube and pipemachinery and slate, asbestos and plastic-cutting tools are also shown.

BLOCKMAKING MACHINERY

Welding Industries Ltd. 462/E

An entirely new Multibloc blockmaking machine with rider control, an output of three cycles per minute and hydraulic operation, is being introduced at the Exhibition and shown in conjunction with other machines in the Multibloc range.

Zenith Maschinenfabrik G M B H 448/F

German firm, appearing at the Exhibition for the first time, are showing the Hydro-Automaton blockmaking machine

Stand Designer: Lep Exhibition Con-

BOILERS, RANGES, STOVES, GRATES AND ACCESSORIES

Allied Ironfounders Ltd. 211, 212/N

Agamatic's new oil-fired boilers, Nos. 30 Agamatic's new oil-fired boilers, Nos. 30 and 50, with outputs of 30,000 and 50,000 B.Th.U./hr, are the main exhibits on this stand. Both boilers can be coupled to Agavector which, having its own thermostat. provides dual thermostatic control and fully automatic heating. Use: for house-warming, hotwater supply or hoth water supply, or both. Stand Designer:

Arthur Braven.

Baxendale, Richard, & Sons Ltd. 605

Display models show the method of fixing and the operation of new features of the Baxi fire—the Rotary ashbox, which may be moved without disturbing a continuous-burning fire; and the radiator output boiler to heat radiators with a total area of 40 sq ft, in addition to supplying domestic hot water.

Chatwins Ltd. 215/N

Examples of domestic boilers, cookers, smoke-consuming stoves, clean-air fires, continuous-burning fires and a wide continuous-burning fires and a wide range of fireplace fittings, back boiler flue sets, etc., are shown.

Crane Ltd. 176, 177/K

Boilers for domestic hot water and central heating using solid fuel or oil, cast iron radiators and Crane skirting heating are shown. Malleable iron pipe fittings and bronze and cast-iron valves make up the equipment shown on this stand.

Stand Designer: Gordon & Ursula Bowyer.

Federated Foundries Ltd. 226/0

The Sofono Convector Mark II fire is being shown with the Sofono Contemporary Self-convecting Surround. Other fires include the Sofono Low-View with self-convecting interior frame, and the Grange fire. The self-convecting surround, available in six colours, has been designed specially for use with the Convector Mark II. Other appliances to be seen include boiler flue sets, the Sofono automatic boiler (introduced last year) and a selection of plumbing and drain fittings.

Stand Designer: Mark Fawdry Ltd.

Glow Worm Boilers Ltd.

The Oil-Glow (see A. & B.N., 7/10/59) and the Therm-Glow (see A. & B.N., 2/9/59), oil-fired and gas-fired boilers are the latest additions to this range of appliances. Solid-fuel appliances: the are the latest additional appliances: the appliances. Solid-fuel appliances: the "Estate", "Junior Aristocrat". "Aristocrat Mark III", "Monarch III" boilers and the "Glowbrite" high output back boiler set may also be seen.

Stand Designer: Lep Exhibition Designer:



Varitiles by the British Plasterboard (Manufacturing) Ltd. (see p. 488)



Hy-Rib combined shuttering and reinforcement for a suspended concrete floor slab, by Truscon Ltd. (see p. 489)



Universal girder clamp for trunking, by Siemens Edison Swan Ltd. (see p. 485)

Tesamoll draught excluder by Sealdraught Ltd (Hurseal Ltd.) (p. 495)



Hattersley Bros. Ltd. 232/P

A range of solid-fuel appliances and gas-fired boilers for domestic and industrial purposes are displayed. Two new appliances, the "Vulcan" Nos. 2 and 3 gas-fired boilers are featured, "Vulcan" No. 3 having just completed its final stages of development. Its output will be 75,000 B.Th.U./hr.

Stand Designer: Ripley, Preston & Co. Ltd.

Hemel Hempstead Engineering Co. Ltd. 14, 15/A

Combustion appliances including the Suxé solid-fuel burners are displayed. The Suxé can be fitted to nearly all types of sectional and tubular boilers within the range of 200,000 to 11 million

Stand Designer: Beck & Pollitzer Ltd.

Ideal Boilers & Radiators Ltd. 217, 218/N, 221, 222/O

The new "Elite" boilers for solid fuel or complete with oil-burner are shown.

A selection of Ideal domestic boilers, alternative heating boilers and the Ideal 'Neofire" and a range of fullway fittings, chromium-plated towel rails, cast-iron radiators, including the new "Neoline" wall pattern, will also be displayed. Sanitary appliances and fittings, including a new "Handspray" wash basin for schools, are also being exhibited. Stand Designer: Olympia Ltd.

Janitor Boilers Ltd.

Automatic anthracite and oil-fired boilers including a fully automatic pressure jet burner/boiler unit rated at 55,000 B.Th.U./hr are exhibited. Stand Designer: Hyde & Partners Ltd.

Radiation Group Sales Ltd., Solid Fuels Division 203, 204/M

Bratt Colbran Ltd., which has been reorganized as the central-heating specialists of the Radiation Group, are show-ing their new range of appliances for the first time on the Radiation stand. Two new low-cost central heating units for houses, flats and offices will be demonstrated in operation. Radiation are also showing two new Parkray solid-fuel fires.

New: Ductair warm air central-heating unit.

Riley, A. J., & Son Ltd.

The range of Hoval dual-purpose The range of Hoval dual-purpose boilers, combining a central-heating boiler and domestic hot-water cylinder are shown in various sizes for automatic oil-firing or gas-firing, or for hand-firing by coke. The oil-fired boiler can be converted to fire solid fuel quickly and cheaply. A new type included this year may also be used as an incinerator. incinerator.

Stand Designer: Hyde & Partners Ltd.

Smith & Wellstood Ltd. 184, 185/L

Continuous burning and thermostatically controlled assisted-draught burners in-cluding the ESSE Century cookers, stoves and oil-fired Sentry water heaters are on view.

Tayco Boilers Ltd.

216/N

Fisons Ltd.

Domestic boilers, for space and water heating, both solid-fuel burning and oilheating, both solid-fuel burning and oil-fired, are displayed on this stand. The solid-fuel types include the Tayco Super Thermatic, Thermatic 25, Tayco 20E, Tayco 25M and the Artayco. Also on show is a new oil-fired boiler, the Pace-setter 15, which has been designed by Neville Condor, F.R.I.B.A., in conjunction with the company's technical staff.

Watts Automatic Boilers 208/M

working model of a fully automatic oil-fired boiler burner unit for central heating and hot-water supply may be seen. Gravity feed solid-fuel boilers, pressure jet oil burners, fuel samples, time switches, controls and equipment are also on show.

Stand Designer: Priestley Studios Ltd.

BOTTLED GAS APPLIANCES

Calor Gas (Distributing) Co. Ltd. 673

The Comet heater for drying-out purposes, in which the fan has been operated by electricity, is now operated entirely by Calor Propane. A variety of burners for the conversion of bitumen boilers, etc., torches, floodlighting and site cater-ing equipment, are also on show ing equipment are also on show.

Stand Designer: Grant Advertising Ltd.

BRICKS

Accrington Brick & Tile Co. Ltd. 152/H

Facing and engineering bricks selected in panels by colours and textures form the basis of the stand design which also sets out to show possibilities of brick-work as a decorative element by reces-sion and projection.

Stand Designer: Messrs. Willink & Dod, F./A.R.I.B.A.

Eastwoods Ltd. 143, 144/H

This two-storey stand, with dominating columns of brickwork 15 and 18ft high, emphasizes the company's manufacture and delivery of heavy building materials—cement, bricks, aggregates, concrete products and roofing tiles. In addition it has a section of architectural ironmongery and sanitary ware.

Stand Designer: F.R.I.B.A., F.S.I.A. Bayes, Kenneth

Primrose Gault facings are a new addition to the Burwell range of bricks and are available with an eggshell smooth or matt surface with colour ranging from pale cream through primrose to stone grey many brick hearing rose to stone grey, many bricks bearing a delicate tinge of pink. Also shown are the Burwell white gault facing bricks for light reflection.

London Brick Co. Ltd.

The Phorpres range of facing, common, keyed and cellular bricks together with building blocks and partition blocks are displayed in panels in addition to hollow clay blocks, field drain pipes and clay electric cable covers. Information is available about the company's recent work on thermal insulation.

Stand Designer: John R. Har F.R.I.B.A., assisted by L. S. Davis. Harris,

Maidenhead Brick & Tile Co. Ltd.

The use of traditional products for modern building practice is emphasized with brick tile strip suggested as a cladding for prefabricated units. New developments in Cortex sanded facings and the Keymertex glazed finishes and tiles which have been developed for use where colour and feature work is desired are all shown.

Proctor & Lavender Ltd.

The exhibit shows a small proportion of the company's full range of products. Most of the brick exhibits are deliberately left unpointed to show the brick clearly. A new material being introduced is a Swedish marble.

Stand Designer: D. Hinton, A.R.I.B.A., A.A.Dipl., & Partners.

Sussex & Dorking United Brick & Tile Co. Ltd.

Included in this display are a new range of Glaztex structural facing bricks, a range of modular ceramic panels in various colours and textures and vertical decorative tiling and floor paving. Of particular interest is the diagrammatical drawing of the new V type vertically perforated clay bricks. The stand consists of a central feature faced with 70 sists of a central feature faced with 70 brick panels with a large external photo-mural of an historical brick subject.

Stand Designer: W. J. Saunders & Son, F./A.R.I.B.A.

Entrainit mortar, by Thomas Hedley Ltd., retains its plasticity under hot and dry conditions



AGE OF ADVENTURE IN ROOF DESIGN!

Two significant RUBEROLD developments

Rubervent

BUILT-UP Roof with ventilation provided by ISOLATION



Method of laying.

Diagrammatic sketch showing method of isolation and the provision made for the roof to breathe. BELOW



The Rubervent Roof is designed to overcome problems often attendant when weatherproofing is laid over screeded substructures. The first layer has a coating of mineral granules on its underside in contact with the concrete. These granules isolate the weatherproofing from any hair cracks in the substructure surface and at the same time permit vapour pressure to disperse over the entire roof area and finally to the outside atmosphere. All layers are bonded simultaneously to each other and to the substructure by a rational system of adhesion points with consequent increase in speed of laying.

We shall be pleased to send full technical details, together with sample on request.

COPPER ROOFING

Copper, glass fibre, and bitumen in a single laminated sheet.

The interest already shown in RUBEROID Copper Roofing suggests many interesting developments in architectural roof design, the flexibility of the material affording great scope for unconventional and imaginative concepts. Less costly than traditional copper roofing, this RUBEROID innovation has distinctive, significant features.

- All seams and laps are completely sealed.
- A choice is offered of traditional seams, batten rolls or flat laps.
- The surface is indented to allow for expansion and contraction.



- There is no work-hardening of the copper during fixing.
- Wind drumming is eliminated.

Ruberoid Copper Roofing consists of an indented surface, laminated with glass fibre based bitumen sheeting. It is always employed with a Ruberoid Underlay to which it is bonded with bitumen compound.

We shall be pleased to send technical literature and sample on request.



See both on our Stand at the Exhibition. Stand No. 241/242 Row Q.



THE RUBEROID COMPANY

705 Commonwealth House, 1-19 New Oxford St., London, W.C.1.







HARVEY

Limited take every precaution to exclude dust from manufacturing departments. Employees change into nylon overalls leaving their outer garments in

'HARCO' CLOTHES LOCKERS

These are of open wire mesh on stout steel frames, providing security for personal property whilst allowing filtered air to circulate freely through the clothes.

Also available in sheet steel, 'Harco' Lockers are a valuable amenity and encourage tidiness. Made in various sizes; easy to install; strong and durable. Please ask for List No. 1009

G. A. HARVEY & CO. (LONDON) LTD. WOOLWICH RD., LONDON, S.E.7 Telephone: GREenwich 3232 (22 lines)

HARVEY Facilities & Products include: STEEL OFFICE FURNITURE . STEEL OFFICE PARTITIONS . ADJUSTABLE STEEL SHELVING AND STORAGE BINS · MACHINERY GUARDS · BAR AND TUBING RACKS · STORAGE TANKS OF ALL TYPES · VENTILATORS AND DUCTING PERFORATED METALS AND PLASTICS . WOVEN WIRE . WIREWORK OF ALL KINDS

CEILINGS

Morrison, R. F., & Co. Ltd.

A completely new range of laminated plastic/steel and stove enamelled steel tiles is shown. These are three-dimen-sional dished ceiling tiles under the trade name Quiltile.

Stramax Ceilings (G.B.) Ltd.

Ceiling radiant heating equipment is displayed. The system is available in two forms, one for use with normal plastered ceilings and the other with prefabricated gypsum tiles. The latter form is supplied and fitted in collaboration with Clark & Fenn Ltd. who manufacture the tiles and erect them to the order of this company. In both forms the heating surface is in contact with, and clipped to, m.s. allwelded pipe coils designed to operate on accelerated hot water at mean tempera-tures of up to 170 deg F.

CEMENT

Cement Marketing Co. Ltd. 108, 109/F

model of the design awarded first A model of the design awarded has prize in the company's recent competition for the design of a single-storey reinforced concrete factory building is displayed. The stand consists of a two-storied structure with framework of precast, prestressed concrete members, made with Ferrocrete suitable with Ferrocrete—suitable for houses, small factories, offices, etc. Various types of cladding slabs, including profile and exposed aggregate slabs, and slabs with coloured glass set in a concrete matrix, together with other of the company's products may be seen.

Stand Designer: John B. Diamond, B.Arch., A.R.I.B.A., Messrs. Diamond, Hodgkinson & Partners.

CEMENTS ACID-PROOF. HARDENERS, MORTAR MIXERS. ANTI-CORROSIVE.

REFRACTORY, ETC.

Hedley, Thomas, & Co. Ltd.

Many uses of "Entrainit" mortar plasagent are demonstrated on stand. It is claimed that the product ensures a controlled air entrainment into cement mixes, renderings, plasterings and

Stand Designer: Richard Lonsdale Hands

Kerner-Greenwood & Co. Ltd. 163/K

The Pudlo range of cement treatment, water repellent, waterproof paints, plas water repellent, waterproof paints, plas-ticisers, frost protectors and rapid hardeners are exhibited with photographs of contracts on which these products have been used. There is also Feusol fire cement which is recommended for setting of boilers, ovens and firegrates. Stand Designer: Piggott Bros. & Co. Ltd. Sealocrete Products Ltd.

158/H

Examples are shown of this manufacexamples are shown of this manufac-turer's range of additives for the water-proofing, colouring, hardening, decorat-ing and curing of cement, concrete, asbestos and allied building materials. Waterproof joints between metal and concrete and waterproof membranes for insertion between concrete slabs are also featured. Also shown are Plazcrete workability aid and Sealobond, a new polyvinyl acetate emulsion, developed in association with Scott Bader Ltd., for keying renderings and plaster and for incorporation in floor screeds and general adhesive work.

Stand Designer: A. E. Callum.

Tretol Ltd.

A wide range of products for the construction, protection and maintenance of buildings includes Tretol Multicolour, spray-applied polychromatic decorative finish which can be used on a wide variety of building surfaces. Tretolin variety of building surfaces. Irefolin paint for building surfaces and Tylox, the tile-like finish for walls, which was first introduced at the 1957 Exhibition and a composite feature demonstrating the company's D.P.C. membrane solutions and Tretol silicone waterproofer are also shown.

CLOAKROOM FITTINGS

Arkinstall Bros. (Bromsgrove) Ltd.

Tubular cloak racks and wire mesh storage lockers are the main products

Stand Designer: Clements Bros. (Displays) Ltd.

CLOCKS

English Clock Systems 180/K

Wall clocks, interior and exterior; time recorders and switches, and examples of special clocks made by ECS to the re-quirements of architects and designers may be seen. The company is a branch of the clock and watch division of S. Smith & Sons (England) Ltd. Stand Designer: E.G.C. Ltd.

COMPRESSORS, ENGINES, GENERATORS, PRIME MOVERS

308/T Petters Ltd.

A member of the Hawker Siddeley Group, this company are showing a selection from their 1½ to 104 b.h.p. range of engines including examples of the Armstrong Siddeley diesel engine. The power output rating and speed of two Petter engines have been increased and these machines may be inspected on and these machines may be inspected on the stand.

CONCRETE MACHINERY, MIXERS AND POURERS

Benton, Edward, & Co. Ltd. 332, 333/M

Included in this exhibition of Pan type mixers and various types of moulds for concrete products is a new small mixer, the "Creteangle" multi-flow. (This was described in our New Products section, A. & B.N., April 14, 1959.)

Stand Designer: Ashley-Arnold Displays Itd

CCC Carriers Ltd. 339, 340, 341

A machine consisting of a carrier and mixer designed as a single unit and embodying many new features is the main exhibit on this stand. Also on show are carriers for cranes, shuttle dumpers and custom-built carriers for all mobile applications.

Stand Designer: Blaw-Knox Ltd.

Liner Concrete Machinery Co. Ltd. 348, 349/X

On show are the "Cadet" mixer, the "Junior" mixer, the "Cloverleaf" tilting-"Junior" mixer, the Cloverical drum hopper-fed mixer with hydraulic loader and integral weigher and "Invarac" patented water tank, the "Cumflow" mixer for high quality concrete of low water/cement ratio, the "Roughrider" dumper and the "Portasaw" circular saw which can be distinct. circular saw which can be driven by either petrol, diesel or electric motor. Stand Designer: Ashley-Arnold Displays

Model LSE pan tipper discharging into barrow. Made by Edward Benton & Co. Ltd.



Millars' Machinery Co. Ltd. 330, 331/M

A selection of concrete mixers, 6in Wellpoint suction pumps, the "Autocrete" batching and central mix plant and a model of a Rheax sand classification plant are on show from the company's comprehensive range of plant for the building contractor. Technical information is available. information is available.

Frederick Parker Ltd. 316, 317/P

A new paddle type mixer with 10 cu ft capacity is shown in this selection of concrete mixers and conveyors. The "Power Scoop" power loading shovel and models of sand and gravel plant and loaders are also shown.

Stothert & Pitt Ltd.

A truck mixer, concrete mixers, vibrating rollers and trailer for transporting vibrating rollers are displayed. Stand Designer: Priestley Studios Ltd.

CONCRETE MACHINERY. SHUTTERING FORMS

Rapid Metal Developments Ltd. 421, 422/H

A wide range of standard, straight and circular steel formwork which includes a heavy duty assembly for use on pours up to 20ft in height and an example of formwork without wallings which may be used where pours are in the range of 4ft are shown. There is also a full range of props, trench struts, column clamps, access panels, corner hopper panels, road forms and other accessories.

CONCRETE MACHINERY. VIBRATORS

Allam, E. P., & Co. Ltd. 307/R Principal exhibits are internal and external vibrators, tampers, rotary floats, compactors and pumps. The "200 Cycle"

range of internal vibrators is shown and their latest additions, a range of special hand tools, which would operate from the existing generators and frequency changers.

The Palmatic electric travelling cradle by Palmers Travelling Cradle Scaffold Co. Ltd.



CONTRACTORS' PLANT CURTAIN WALLING

Contractors & Industrial Equipment 419, 420/L Ltd.

The range of products displayed in-cludes: hand and mechanical power fixing tools, drillers, chasers, tools. vibratory smoothing tools, props, struts, road forms, concrete pouring skips and industrial space heaters. A new range of heaters from an American source is shown for the first time in the U.K.

Cornelly Equipment Co. Ltd. 415, 416/L

Equipment made for the pre-cast con-crete industry includes the Champion 3D Tower Crane introduced in June and Arbau Weighbatching plant coupled with the Record Cement Silo and Record Concrete skips. Block machines, tilting pans, etc., and the Record Bar Bender are also shown.

Ernest Doe & Sons Ltd.

A Hydra-Digga/Loadall 65 is the main feature in this selection of transplanters, earth borers, loading shovels, dumpers,

Stand Designer: Olympia Ltd.

Hymatic Engineering Co. Ltd. 761, 762

The range of Hymatic-Hydrovane mobile and portable air compressors will be demonstrated in operation, including the new model 90E100 which powers four light pneumatic hammer drills or one heavy concrete breaker. Similar models will pass through a standard doorway and are designed to enable pneumatic tools to be operated on any site anywhere in the building.

Stand Designer: W. R. Symes.

Witlor Ltd. 463, 464, 465/E

The new Arley tractor-mounted hydraulic light crane, mounted on its own wheels and attached to the front of the Fordson Major Tractor, is shown, together with the Whitlock Dinkum Digger Major and a range of Wacker vibro hammers, vibro plates, poker vibrators and the Robel unit frame scaffolding.

CRANES, HOISTS, CONVEYORS, CRADLES AND FITTINGS

Palmers Travelling Cradle and Scaffold Co. Ltd. 434, 435/H

Two new machines are shown on which several years of intensive research, trial and development have been spent. The first, the "Stratline" winch, is fully selfnrst, the Stratine which, is fully sein-sustaining, hand operated, allowing 160ft of cable and is easy to operate. The second, the Palmatic electric travelling cradle, is fully automatic with a push-button trolley to carry team and equipment; it is smooth running, completely mobile, impervious to weathering, etc., and has a manual winding gear for use in the event of power failure.

Warry Engineering Ltd. 484, 485 The Warry Hermes Static concrete hoist, of 15cwt or of one ton capacity, is a new development being exhibited for the first time. Other products are the 5 and 10cwt mobile platform hoists and the Simplex brick truck Stand Designer: Slough Displays.

Ajax Architectural Products Ltd. 131/G

Glass-Span curtain walling, developed by the company over the past four years, is exhibited for the first time. The firm also introducing mass-produced aluminium anodized entrance doors at a price, they say, comparable to hard-wood doors.

Glass-Span curtain walling. New: Aluminium anodized entrance doors.

Holoplast Ltd.

The Holoplast curtain walling system is shown in a two-storey tower using Decorplast structural panels with many exterior colours and patterns and Holoplast internal partitioning is also used in the stand design. Corroplast roofing sheets and ancillaries are shown in a three-dimensional exhibit.

Quicktho Engineering Ltd.

An all aluminium alloy curtain walling construction containing a range of open-ing windows and designed to accommodate glass and dry panel infilling up to 2in thick, is the main feature of the stand, with an alternative system of integral curtain walling. A selection of purpose-made windows and roof lights may also be seen. Stand Designer: Beck & Pollitzer Ltd.

DAMPCOURSES. ROOFING FELT AND WATERPROOFING MATERIALS

Berry Wiggins & Co. Ltd. 34/R

A range of established products and new developments, such as Aquaseal and Tensulac paints, primers and gritting solutions, bitumen adhesives and plastic compounds. coldcoat applied bitumen emulsion, Kingsnorth pipe lining compounds, mould and insulating oils and materials for thermal insulation shown.

William Briggs & Sons Ltd.

The stand is designed to show architects and engineers the latest techniques in modern roof construction with "Bitu-metal" metal deck roofs. The whole range of decks is displayed with effective spans and various specifications, including those to meet requirements of the new Thermal Insulation Act and model by-laws on the fire hazard in roofs.

Latter, A., & Co. Ltd.

A complete range of Lattenax water-proof building and thermal insulation membranes is shown with typical examples of uses. Stand Designer: Brunton. Baden, Hellard & Boobyer, A./A./A.R.I.B.A.

Limmer & Trinidad Lake Asphalt Co. Ltd.

Trinidad Mastic applications for roofing, tanking and damp-proof coursing; Trinasco metal decking are shown as examples of roofing and damp-proof coursing; Trinasco metal decking are shown as examples of roofing and damp-proofing

Shell-Mex & B.P. Limited chose IDEAL BRITANNIA BOILERS for their oil-fired installation in Shell-B.P. House, Bristol



Two Ideal Britannia oil-fired boilers for central heating and one for indirect hot water supply have been installed in the new Shell-B.P. House in Wine Street, Bristol.

Ideal Britannia Boilers are made in 49 sizes with capacities ranging from 40,000 to 2,492,000 B.T.U./hour. A distinct advantage of the Britannia is that the firebox gives adequate space for burning the quantity of oil necessary to provide the catalogue ratings with the highest efficiency. Tests show up to and over 80% efficiency calculated on the gross calorific value of the oil.

INFAI BRITANNIA BOILERS



IDEAL BOILERS & RADIATORS LIMITED · IDEAL WORKS · HULL Visit our Stands, Nos. 217-218 and 221-222, at the Building Exhibition, Olympia, November 18—December 2



Fuel experts are agreed on the many advantages of oil firing and we, as experts in the burning of liquid fuel, as applied to gas turbine engines, commend the new Lucas Oil-O-Matic Burner.

We have combined our vast experience with the best American practice for household and industrial heating to produce what is considered to be the finest oil-fired boiler heating unit in its class. It has the world's most advanced burner design with the inherent advantage of low-pressure operation. It starts... stops... and controls itself entirely automatically to give, constant and selected water temperature and central heating. Controlled heat is regulated by thermostat. The self-cleaning burner nozzle is GUARANTEED FOR LIFE. It is small and compact, quiet in operation, odourless and will burn a wide range of fuels.

- PRE-MIXED AIR/OIL ENSURES BETTER COMBUSTION.
 LARGE ATOMISER ORIFICE OBVIATES BLOCKAGES.
- OPERATES AT LESS THAN 2 LR. PER SO. IN.
- * AIR/OIL SUPPLIES ADJUSTABLE WITH UNIT IN OPERATION.
- MOTOR AND AIR PUMP AUTOMATICALLY LUBRICATED BY FUEL.
- * SAFETY MOTOR NO CENTRIFUGAL SWITCH LIGHT STARTING LOAD.





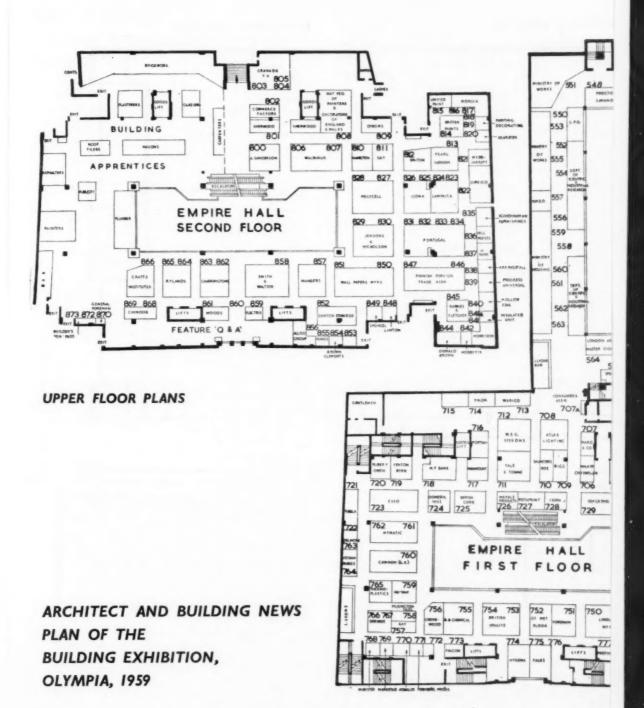
LOW PRESSURE BURNER

HAXIMUM HEAT OUTPUT 200,000 B.T.U./HOUR

COMPACT SIZE (12) x 12) x 7;). UNIQUE INBUILT PUMP UNIT GIVES UP TO 10 FT. SUCTION. FACTORY RECONDITIONED SUB-ASSEMBLIES FROM STOCK ON LOW-COST EXCHANGE SCHEME.

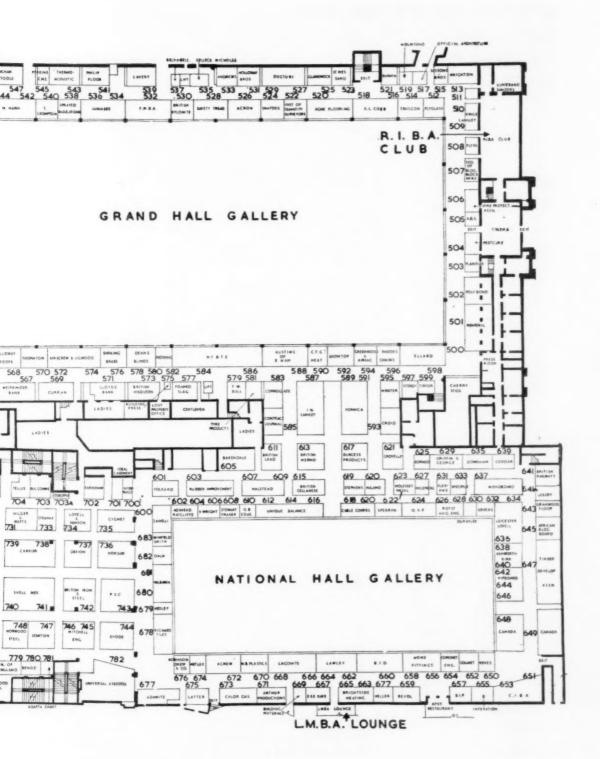
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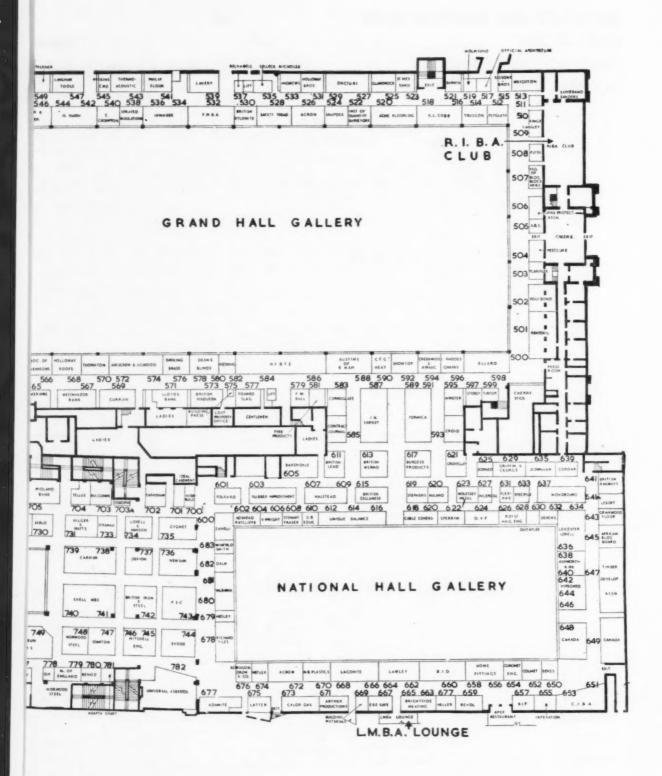
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A TYPICAL SALIGNA-GUM PLANTATION IN NATAL

The entire trunks of these magnificent trees-reaching a height of 140 ft. and a diameter of 14"-are converted into TIMBERIT . . the world's finest HARDBOARD

STOCKED BY ALL LEADING TIMBER AND BUILDERS' MERCHANTS

installed at Fords, Dagenham... 'Standard' vitreous china urinals



The Body Manufacture Group of the Ford Motor Company (at Chequers Lane, Dagenham) recently installed approximately 140 'Standard' Pural urinals. One of these installations is shown in the

Perhaps the chief advantage of the Pural is that it is made of 'Standard' vitreous china. This material is non-porous throughout and, even without its glaze, it would retain its hygienic properties. This fact, coupled with its high resistance to accidental breakage, makes 'Standard' vitreous china the most suitable material for all sanitary appliances.

Standard vitreous china



visit our Stands, Nos. 217-218 and 221-222, at the Building Exhibition, Olympia, Nov. 18th-Dec. 2nd.

techniques. Member companies of the group also show industrial flooring and decorative floors.

Ruberoid Co. Ltd. 241, 242/Q

The Rubervent roof makes its first exhibition appearance as a dominant feature of the stand design. It is claimed that this system avoids build-up of water vapour pressure under weather-proofing. particularly from insulating concrete screeds. A granular underside of the first layer (which may be inspected in posi-tion by mirrors through the glass sub-structure) permits the substructure to breathe and move. The principle is demonstrated on an animated display panel. Also shown are copper roofing, bridge insulation, dampcourses, bitu-minous roofs and other types of deck

Stand Designer: D.M.A. Design Ltd.

DOOR AND WINDOW FURNITURE AND DECORATIVE LETTERS

Crompton, Thomas, & Sons Ltd. 540

The 1959 Easy Clean sliding hinge is shown. An advantage is that by removing four small screws the com-plete window can be withdrawn into the room for any repairs. Another new product is the 770 sliding door catch which, it is claimed, ensures a firm rattle-proof grip for sliding doors.

Lacrinoid Products Ltd.

The Lacrinoid range of door furniture and cabinet handles, and "Fildenix" lampshades are on show; and also a new range of plastic cabinet handles and door grips incorporating the most popular patterns of "Warerite" decorative laminates is to be seen.

Rhodes Chains Ltd.

Patent pulleys and chains for sliding sashes, shutters, doors and hatches are shown. The Rhodes system of sash-hanging, chains and lifting tackle for all industrial purposes is also displayed.

Teleflex Products Ltd.

Various types of mechanical remote control equipment for windows and ven-

The Welfold door by Westland Engineers Ltd.



tilators form the subject of this manufacturer's display. These include swan neck, electric torsion and cable screw jack gears.

Stand Designer: Beams & Kaye.

Ward & Co. (Letters) Ltd.

This is a display of applied lettering in numerous media. Sign letters are displayed from the smallest cut-out direc-tional letters to large illuminated metal types and there is an accent on the imaginative use of specific alphabet type

Stand Designer: Priestley Studios Ltd.

DOORS, GARAGE AND INDUSTRIAL

Bolton Gate Co. Ltd. 66/D

This stand is entirely constructed of various types of doors, a number of which are power driven and may be operated by visitors. The exhibits include a new round the corner lift door which negotiates a 6in radius, a photocell operated glass door, a bar counter grille, a burglar-proof window grille, and Superfold partitions. The Glydover garage door is now available in widths garage door is now available in widths of up to 16ft.

Round-the-corner lift door in aluminium.

Ellard Sliding Door Gears Ltd.

A selection of sliding and folding doors A selection of sliding and folding doors for commercial, industrial and domestic use are on view. Working models and samples are available for inspection including the "Meteor" ball-bearing gear and prefabricated cavity units for dom-estic sliding doors, and the new "Glidor" alloy and nylon gear for caravans, wardrobes and cabinets.

Esavian Ltd. 38, 39/B

A semicircular loggia door constructed in mahogany, fully glazed and weathered and a similar door of aluminium con-struction are the main features of the stand. The new "Esafold" room divider has been designed for domestic applica-tion. Industrial doors made by the contion. Industrial doors made by the com-pany are photographically illustrated. Stand Designer: J. W. Leonard, F.S.I.A.

Hill Aldam, E., & Co. Ltd. 106/F

New products on display are the Flyover Delta gear and the Jason gear for cupboards, serving hatches, etc. Working models with full size fittings, showing arrangements for various types of slid-ing and folding doors are demonstrated. Stand Designer: F. Austen & Sons Ltd.

Westland Engineers Ltd.

Two new overhead doors, the "Garador" and the "Welfold" are exhibited for the first time. The "Welfold" is being introduced at the Exhibition and is suggested for high openings in industrial buildings and fire stations and is shown in a power-operated version.

DOORS, WOOD

Bryce White & Co. Ltd. 81/E

The floor of the stand is of oak machined in their own mills, with a

structure of materials which can be supplied from stock. Doors of many supplied from stock. Doors of many designs, moulding and a large selection of wallboards are shown and the whole of the stand, including the design, was executed by the firm's joinery works.

Hills, F., & Sons Ltd.

A selection of doors, wood, board, com-position and plywood faced; decorative laminated plastic; prefabricated toilet cubicles; extruded chipboard and a new range of "Super Satin Surface" doors are shown

Stand Designer: Philip R. Middleton &

Jayanbee Joinery Ltd.

Flush external and internal doors in plywood, hardboard and veneer, and a range of kitchen fittings including the new Queenline and Kitchette ranges of units are displayed. They also show the Paragon Pivot, Lustralite and Pearson Full-Vision sashless windows.

Sadd, John, & Sons Ltd. 43/C

This stand is an open-type double-deck display unit utilizing the more popular timbers manufactured and marketed by the company. There is a modern version of a sliding sash window on show, as well as the newly designed Goldhanger flush door.

Shapland & Petter Ltd. 259/R

A range of flush doors, joinery, counters, fitments, panelling and laboratory fittings is shown on this stand which was designed in the firm's own studio.

DOUBLE GLAZING UNITS

Tomo Trading Co. Ltd.

A practical demonstration of the thermal insulating efficiency of Tomo double-glazed windows illustrating also the absence of condensation on Tomo double glazing, compared with single glazed windows, is featured. A comprehensive range of purpose-made windows and doors will be on display. A picture window which can be purchased from stock is exhibited for the first time and there is also a range of pleated blinds and a large variety of door and window fittings of Swedish design, including many in "Fixylon", a new nylon plastics material.

DRAIN CLEANING AND TESTING EQUIPMENT

Ward's Flexible Rod Co. Ltd.

"Nucana" rods for drain and sewer cleaning, flexible steel springs and drain cleaning plugs, fittings and brushes are shown.

DRAUGHT EXCLUDERS

Duraflex Housecrafts Ltd. 630

The Duraflex Threshold and door sealine Durallex Inresnoid and door sealing systems, namely Vinl-Stop (a new weatherstripping), Vinl-Sweep and Nail-Kwik, are all on display.

Stand Designer: Earls Court Standfitting

DRAWING OFFICE AND SURVEYING EQUIPMENT

Hilger & Watts Ltd. 731, 732

A range of surveying equipment, with particular emphasis on the "Autoset" and "Cowley" levels and the "Sitessquare," is demonstrated. The "Autoset" level is a new automatic level for architects and engineers and is claimed to be extremely fast in use, as the usual setting up procedure has been eliminated.

Stand Designer: Constructive Designers Ltd.

DRILLS AND DRILLING EQUIPMENT

Holemasters Ltd. 356/Y

Working demonstrations of portable diamond drilling equipment, electric, petrol and air operated and an air-operated diamond drill capable of drilling a 10in diameter hole in reinforced concrete, may be seen. Conversion parts may be supplied to adapt existing drills for diamond drilling of stone, concrete, ceramics, etc. Some of this equipment was used in the Stonehenge reconstruction.

Stand Designer: Technigraphic Ltd.

DUCTING

Ductube Co. Ltd. 527, 529

This company and its three subsidiary companies show between them: Ductube inflatable rubber tubing for forming ducts in concrete; the DA Warm Air Heating Systems; Gifford Udall Prestressing systems and services; Ductiflex and Ductex Metal Sheathing; Kaiser "in situ" reinforced concrete floors; Ovacore for forming oval and rectangular ducts in concrete; and the Thermoduct Electric Floor Heating System.

Greenwood Airvac Conduits Ltd. 594

A range of purpose-made underfloor skirting and floor surface duct systems for office buildings, hotels, factories, schools, laboratories, etc., are featured. The demonstration lay-out of the underfloor duct system, suitable for 1½in screed, shows the most recent development.

ment.
New: "Flushfyt" underfloor duct system.
Stand Designer: Beck & Pollitzer Ltd.

DUMPERS, DOZERS AND EARTH-MOVING EQUIPMENT

Aveling-Barford Ltd. 329/O

Aveling-Barford's calfdozer will be on show with a new 12 b.h.p. diesel engine and a faster, smoother blade operation. The firm is also showing their GA 30cwt three-wheeled roller intended primarily for footpath construction, and with rolling widths of 3ft or 4ft, the Barford 150 dumper (2 ton payload), the Barford 75 dumper, and a selection of concrete mixers.

New: Higher-powered calfdozer.

Neale, Wright & Co. Ltd. 479/C

A narrow 15cwt diesel dumper is introduced for the first time. It has been designed for use in confined spaces. Thwaites range of dumpers, air pumps, compressors, concrete mixers, descaling pistols and a concrete poker vibrator are also shown.

Saunders, H. A., Ltd. 402, 403/L

New model Bristol diesel crawler tractors on which are based angledozers, duplex dozers-cum-loaders and digloaders, forward and overloaders, and excavators are shown, in addition to earlier products. Stand Designer: Olympia Ltd.

Thwaites Engineering Co. Ltd. 452/F

A selection of dumpers and earth-moving equipment is shown, in.luding the new Nimbus T3 diesel dumper (15cwt capacity), redesigned to be much stronger with a lower centre of gravity, and introduced in August of this year.

Stand Designer: B. & S. Displays Ltd.

Weatherill, F. E., Ltd. 427, 428/H

Two new four-wheel drive loading shovels, incorporating a patent scoop and side arm geometry with optional automatic or hydraulic scoop crowding, are introduced at the Exhibition. The rear wheel drive loading shovel type 12H, fitted with disc brakes for the first time, is also shown.

Whitlock Bros. Ltd. 432, 433/H

The Dinkum Digger Major and the Whitlock power shovel are the main exhibits. Trenching, irrigation, ejector, ditching and pipe trench buckets and a facing shovel are also shown.

DUST CONTROL EQUIPMENT

Dallow Lambert & Co. Ltd. 380/W

A dust control advisory service with technically trained staff to answer inquiries is available. Some of the many varied applications to which Dallow Lambert equipment can be applied will be displayed photographically on the stand. Equipment is suitable for all types of industry, including woodworking, building, engineering, plastics and ceramics.

EXCAVATORS AND LOADERS

Bamford, J. C., (Excavators) Ltd. 476, 477, 478/C

The Hydra-Digga/Loadall 65 and Loadall 75, which continue in production with minor detail modifications only, are on view. A wide range of attachments is available including bulk excavation buckets, tren-hing buckets, ditching buckets, square hole buckets, beet forks, muck forks, scarifiers, jib cranes and bulldozer blades.

Bray Construction Equipment Ltd. 430, 431/F

The new model BL 455 Tractor Shovel is introduced after many months of extensive test. The Sherman Model F 8 Trencher, rear mounted on the smaller Bray Loading Shovel Model HL 23, is also shown in addition to other hydraulic loading shovels.

Stand Designer: Arthur Display Organisation Ltd.

Steel Fabricators (Cardiff) Ltd.

429/H

26/B

The Shawnee Warrior Digger, special loader and Poole rear dumper are among the products on show.

Stand Designer: Priestley Studios.

FENCING AND GATES

Penfold Fencing and Engineering Ltd. 28/B

Photographs illustrating this company's recent contracts are on show together with samples of chain link fencing and details of a new roofing section.

FIRE ALARMS

Rely-a-Bell Burglar & Fire Alarm Co. Ltd. 537

Collapsible grilles, winch and roller operated and burglar and fire alarm systems (with all electronic types) are shown. Technical advice will be available on all products.

Stand Designer: S. R. Bardsley.

FIREPLACES

Bell, A., & Co. Ltd.

Fireplaces in a new range of roughhewn strips of genuine marble, used with

The Thwaites Nimbus T3 15cwt dumper by Thwaites Engineering Co. Ltd.



other natural materials, and Ceramic insets form part of this display. Chlorinators, including a small unit for sterilization of small water supplies and swimming pools, together with facing materials, sparkguards and fireguards and decorative tiles are also featured.

Candy & Co. Ltd.

The stand has been designed to illustrate some new ideas for internal and external wall tiling, including designs by Tibor Reich for the Texturtile range. A range of glazed mosaic tiles is shown for the first time and there is also a selection of Devon Fireplaces, including the new RO 129.

English Fireplaces (Galleon) Ltd. 107/F

Four fireplaces in Cragleith stone, multicolour rustic bricks or special Ruabon bricks; and two designs in tiles, one of which was designed round a Sofono Superview are shown.

Packard & Ord Ltd. 130/G New designs in Marlborough fireplaces; handpainted tiles and beer pulls are shown.

FIRE RETARDANT CONSTRUCTIONS, COATINGS AND CONTROL TECHNIQUES

Dohm Ltd.

193, 194/L

Vermiculite, polythene, plastic piping and buckets, white calcined flint aggreand buckets. gate, the Dohm technique of spraying decorative aggregate finishes to internal and external building surfaces, "midget" arc welding machines, Can-Tile industrial heavy duty floor coating and transformer plugs are illustrative of the company's interests

Stand Designer: F. Austen & Sons Ltd.

269/S, 270/T Durasteel Ltd.

Ventilation trunking to two-hour fire resistance standard, made from Durasteel 3DF2 composite steel-and-asbestos panel-ling; hinged and sliding doors to F.O.C. gradings and corrugated Durasteel steelcored asbestos roofing are on view. Structural fire protection is the general theme of the exhibit with particular reference to building sub-divisions, lift shaft cladding, trunking, etc.

Stand Designer: Dewar Mills Associates.

Sprayed Insulations Ltd.

Silbestos-sprayed used for sealing gaps at gutters and ridges, and for the fire protection of structural steel, is this company's product for thermal insulation and fire

Stand Designer: Beck & Pollitzer Ltd.

FLOOR POLISHING AND CLEANING MACHINES

Progress (Universal) Ltd.

A new machine for suction polishing, dry cleaning, scrubbing, scarifying sanding, which was introduced at the Factory Equipment Exhibition this year, is being shown again. The machine has only two moving parts and is said to be extremely silent in use and to operate right up to the skirting.

Sundstrand Sanders Ltd.

A new small type compressed air sanding machine has been added to the other two machines in the Sundstrand range all three machines can be used for wet and dry sanding on metal and wood and various other finishes and also on stone, concrete, etc. The Norgren range compressed air equipment—air filters, pressure regulators and lubricators—is also shown.

FLOORS, COMPOSITION

Granwood Flooring Co. Ltd.

An entire floor, approximately 24 sq yd, laid in patterns incorporating the ten colours of the Granwood range of composition floor blocks, is the main exhibit. The Galaxy floor block, wall dado tiles, coved skirting, staircase material and floor maintenance materials are also on

FLOORS, CONCRETE

Omnia Constructions Ltd. 187/L

A full-scale section of the Omnia concrete floor, with a model demonstrating its adaptability for many requirements, is shown. A reduced-scale model of the Supira chimney terminal is also exhibited and demonstrations are being bited and demonstrations are being carried out during the Exhibition.

Stand Designer: City Display Organisa-

FLOORS, CORK

British Technical Cork Products Ltd.

The Britcork range of flooring products has now been extended to include four types of tile of different densities. Large areas of floor on the stand are laid with different types of tile, and other exhibits include stair treads, motif tiles, cork wall panelling, photographs of recent con-tracts and miniature examples of patterned effects that can be achieved with the standard range of shades. The treads and motif tiles are examples of the company's purpose-made items. Stand Designer: Slough Displays Ltd.

Robinson Bros. Cork Growers Ltd. 271/T

Cork tiling in natural shades and colour, corkboard insulation and insulation are shown. "Superlite" Designer: Robert Le M.S.I.A.

FLOORS, HEAVY DUTY

Snowtop Products Ltd. and Mosaic & Terrazzo Precast Co. (Staines) Ltd.

A range of low-priced standard terrazzo products including toilet partitions and unit window cills is emphasized. There are new polka dot terrazzo tiles; small glazed wall tiles, 2in by 2in, etc., supplied papered in 1ft squares for rapid fixing, and claimed to be frostproof and non-crazing; and a range of Italian mosaics. Industrial concrete floors, which are surfaced when the main floor slab is cast, are also shown.

Stand Designer: W. D. Topping, D.F.C.,

A.R.I.B.A.

Adamite Co. Ltd.

FLOORS, PLASTICS

A special feature of this stand will be a staircase showing a wide range of safety products for stairs. The company also shows a complete new range of felt-backed P.V.C. floorings.

New: Felt-backed P.V.C. floorings.

Armstrong Cork Co. 92, 93/E

New American flooring materials which will be available in this country are being introduced by Armstrong's at the exhibition. One of these, Opalesq, has a three dimensional transparent quality and consists of pure vinyl coloured chips floating in transparent vinyl. Also new at the exhibition is the increased colour series of Accotile thermoplastic and Accoflex vinyl asbestos floor tiles including a designers' series of colours in Accoflex, intended for interior décor. New: Opalesq; other U.S. materials; new tile colour ranges. Stand Designer: Cockade Ltd.

The Barford 150 diesel dumper by Aveling-Barford Ltd.



Dermide Ltd.

766, 767

Rossella vinyl-coated felt floorcovering and Dermide vinyl-coated fabric wallcovering may be seen on this stand.

Stand Designer: Douglas Evans Cook.

FLOORS, RUBBER

Bulgomme-Silence Flooring. 703

Bulgomme-Silence flooring, a long-wearing, non-slip silent rubber flooring, is the feature of this stand. It is claimed not to stretch, creep or bubble and can be laid on most types of floors.

Stand Designer: Avon Publicity Ltd.

Semtex Ltd.

Vertilex wall covering, Synthanite screeding and Permatred rubber flooring are displayed in this range of flooring, Latex cements and wall coverings. Maintenance and decking materials and floor paints are also shown.

FLOORS, TILE

A. Quiligotti & Co. Ltd. 162/K

Quil-craze, an hydraulically pressed terrazzo tile with a crazy-paving effect, Quil-lath non-crack flooring system, and selection of terrazzo tiles, industrial Quil-Nesite oxychloride flooring are amongst the products displayed.

Stand Designer: Driscoll Brothers Ltd.

FLOORS, WOOD

Acme Flooring & Paving Co. (1904) Ltd.

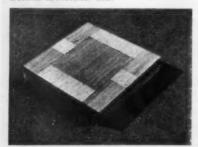
complete floor covering service offered and exhibits include immovable Acme hardwood strip and block floor-ing and fine seasoned kiln-dried woods, tiles, linoleum, cork tiles, rubber flooring and fitted carpets.

Barnes & Fletcher Ltd.

Durabella stabilized hardwood flooring block and curtain walling in stabilized hardwood pre-cast in concrete are shown. Special features of the stand are a glass case containing a concrete slab timber flooring pre-cast which has been submerged in water since January this year; and an oak panel, cast in concrete, and fitted with heating wiring, on which a kettle will be brought to the boil.

Stand Designer: Beck & Pollitzer (Contracts) Ltd.

Durabella hardwood flooring block by Barnes & Fletcher Ltd.



FLOORS, OTHER SPECIAL MATERIALS

Sissons Brothers & Co. Ltd.

Sissons floor dressing is shown for the first time at any exhibition. It is claimed that its use offers great economy in maintenance costs for all types of floors and gives non-slip floors of pleasing appearance. As it is transparent, the natural colouring of floor material is preserved and it may be used over waxed floors.

FLUES AND FLUE UNITS

True Flue Ltd. 12, 13/A

Details of a standard range of flue linings, throat units and flue components and full information on: shunt flues and the use of this system in multi-storey buildings; Se-Duct system of gas flues; ventilating ducts; type X gas flue blocks and refuse chutes are available.

Stand Designer: Cooks Display Productions Ltd.

GENERAL CONTRACTORS

Holloway Group of Companies

To illustrate the wide scope of the group's activities, the walls, ceiling and floor of the stand are a carefully blended mixture of joinery and stonemasonry, plaster work, furnishing, decoration and lighting. A model of the recently com-pleted deep-water berth and fitting-out quay at Southwick Shipyard, Sunderland, is shown as representative of the group's civil engineering activities.

Mitchell Engineering Ltd. and Unit 745, 746 Construction Co. Ltd.

Mitchell Engineering Ltd. show a com-plete range of "Melcrete" insulation blocks for use in the construction of load bearing and partition walls with high thermal insulation values. The structure of the stand consists of modu-lar "Melcrete" blocks designed and de-veloped for use in "Wallframe" construc-tion. "Wallframe" construction as developed for multi-storey buildings is also shown.

GLASS, INCLUDING BRICKS, BLOCKS, TILING, DECORATIVE

London Sand Blast Decorative Glass Works Ltd. 129/G

Brilliant cut, acid-etched, sand-blasted, ceramic enamelled, gilded, silvered and bevelled glass together with laboratory ware (bottles), petrol pump panels, ware (bottles), petrol pump panels, advertising mirrors, ashtrays and paperweights are displayed.

Pilkington Brothers Ltd. 115, 116/F

The stand has been designed as two floors and a roof, forming an airy basis for the display of glass. There is a display of Float glass introduced by Pilkingstons earlier this year, which, it is claimed, combines all the best quali-ties of plating and sheeting and has distortion-free surfaces. Armourplate glass (doors, transoms and side panels), insulight hollow glass blocks and double glazing units and various types of structural glass are shown.

Stand Designer: S.

Designer: M. Sternfeldt. L.R.I.B.A.

Price, D. W., & Son Ltd. 169/L

Larger plates for shop fronts with Armourplate doors inset are among the Armourplate doors inset are among the range of glasses shown. Glass Vitrolite in several colours for facing walls of kitchens, bathrooms, etc., decorative mirrors, glass signs and all available obscure and cathedral glasses may also

Stand Designer: Beck & Pollitzer Ltd.

GLUES AND ADHESIVES

B.B. Chemical Co. Ltd.

Various glues and adhesives, joint sealing compounds and expansion jointing are featured. Bostik and Bostikol and an extruded sealing strip, Prestik, may be seen, in addition to Noxallac pro-tective surface coating with texture and colour decoration.
Stand Designer: Richard Lonsdale-Hands
Associates Ltd.

CIBA (A.R.L.) Ltd.

This stand shows the uses of synthetic This stand shows the uses of synthetic resins and synthetic resin adhesives in the building industry. New developments in the Epoxy field are the uses of "Araldite" for mending concrete, bonding it to other materials, and for making flooring compounds to resist unusually hard conditions of wear. Stand Designer: Norman Battershill, M.S.I.A.

Evode Ltd.

The stand has been designed to show the activities of all divisions of the company—industrial adhesives, mastics, building chemicals and paints, which are shown either as an integral part of the stand or in separate displays. The products include Evo-Stik Impact adhesive and roof waterproofing. Evoflex or Sealing Strip and other new products may also be inspected.

Stand Designer: David Dry & Halasz, A.R.I.B.A./Dip. Arch.

Leicester Lovell & Co. Ltd. 634, 636

This stand is designed to show the use of laminated timber and other forms of of laminated timber and other forms of glued timber constructions. Cascamite "One Shot" resin glue and Cascophen Resorcinol Resin Glue are incorporated in the construction. Further uses of Casco synthetic resins and adhesives in the building trade and Casco-Resin Liquid urea resin glue are displayed.

Polybond Ltd.

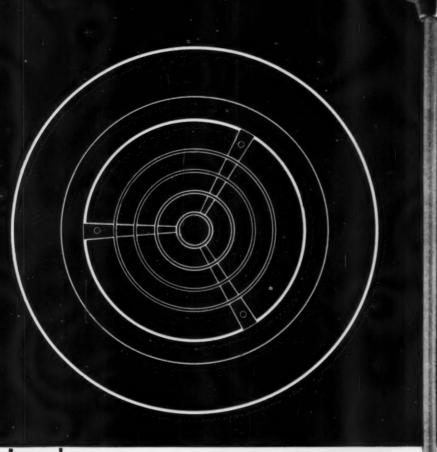
Building and general adhesives, cement improvers and additives and Polyvinyl Acetate, including Polybond, may be inspected on this stand.

Stand Designer: Mercury Displays Ltd.

Polycell Products Ltd.

Polycell, Polyfilla, Polyclens, Polypeel, Polystrippa and Polylina are the range of products which are produced by this company for all decoration jobs.

Stand Designer: George Elton of Pembertons Advertising Agency.



VENTURA

The Ventura series by Merchant Adventurers Limited provides architects and engineers with a range of twenty lighting fittings designed with logical simplicity to fulfil a variety of common lighting needs. They give general lighting with a high degree of diffusion and with no disturbing glare. Moulded in white opal translucent plastic, the diffuser has an open top for shadowless ceiling lighting. The open louvred aperture gives virtually uninterrupted downward lighting while shielding the bare lamp from all normal viewpoints. Prices from 19/2d. including P.T.



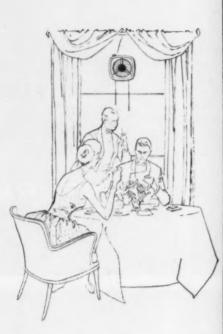


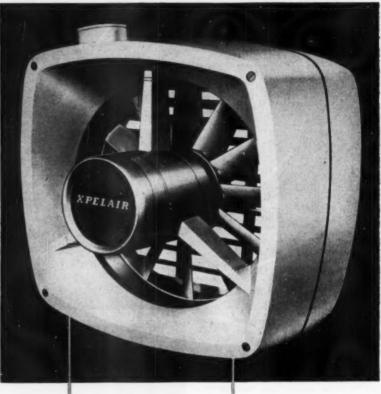
A comprehensive leaflet giving full data and prices is available on request.

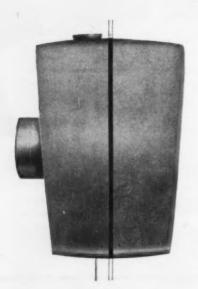
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Head Office: Hampton Road West, Feltham, Middlesex. FELtham 3686 London Showrooms: 43, Portland Road, London, W.11 PARk 1221

IEU conception in design







Compare it! The new 12 in. Xpelair breaks away from customary design. Clean, simple lines give it elegance. Reversible, it provides extraction or fresh air input. It has dual-speed motor control. Remote four-speed and reversing control is available. Built-in iris shutter and integral fan switch are concealed within its casing. Its capacity is 60,000 cu. ft. per hour. For window glass or wall mounting. Ask for leaflet v4722.

The New XPELAIR

XPELAIR SALES, 59/62 HIGH HOLBORN, LONDON, W.C.I

XPELAIR SALES, KEMBLE HOUSE, 20 KEAN STREET, LONDON, W.C.2

GOVERNMENT. COUNCIL AND EDUCATIONAL DEPARTMENTS

Canadian Government Stand 648, 649

The theme of the Canadian exhibit is the use of Canadian woods in timber frame construction which is emphasized in a cut-away section of a house. For the first time the stand includes a group of allied products which is the feature in a display of building materials. Various other products of Canada are also shown.

Finnish Foreign Trade Association 846, 847

Various Finnish exporting firms have combined to show a varied display of Finnish products, which include kitchen furnishing units, fibre boards, fire-doors, glued laminated constructions, chipboard, wallpaper, Ava locks, glass blocks and machinery for chipboard factories.

General Post Office. 550

The exhibit is designed to draw attention to facilities to help one to get the best out of the postal and telephone services. G.P.O. engineers are available for consultation with architects and builders about problems associated with the installation of telephones, particularly in large blocks of flats, etc. Stand Designer: Central Office of Information.

Ministry of Works. 551, 553, 555

Services for tall buildings, the use of pre-cast concrete in the construction of a laboratory and safety on building sites are the concern of this stand.

Stand Designer: Central Office of Information

Portugal, Casa de. 831, 832, 833, 834

The main applications of cork and cork-board in modern building technique are featured on this stand. Technical advice is available. Cork tiles for thermal and acoustic insulation, flooring, walling and roofing are displayed, and also painted decorative cork tiles, mosaics, hygienic china, taps and other household The main applications of cork and cork-Stand Designer: G. W. Waller.

HAMMERS, BOLT DRIVING GUNS

Ramset Fasteners (UK) Ltd.

The Ramset fastening system, including the latest piston-driven tool, is featured. It introduces, this year, a new safety mechanism and a hammer-driven fasten-ing system for lighter work. The equip-ment can be obtained direct from the company but not through the retail trade.

Spotnails Ltd. 355/Y

All types of mallet-drive guns and air guns are demonstrated driving various types of fasteners. The model LHL air gun employs new high velocity prin-

ciple, shooting the fasteners into the work under an air pressure of 80 to 100 lb/sq in and also returning the plunger for the next shot. This and mallet-drive Spotnailers are suggested for such building operations as applying sheathing, sub-flooring and floor under-layment, plywood and hardboard panelling. Stand Designer: Olympia Ltd.

Ucan Development Ltd.

Hilti hand- and cartridge-assisted fixing tools including the DX100L, the latest in the range, are shown Stand Designer: J. H. Hopper.

HARDWOODS, AND SOFTWOODS, TIMBER MERCHANTS

Gliksten, J., & Son Ltd. 125/G

A range of hardwoods, softwoods, ply-woods, flush doors, "B.P." insulation woods, flush doors, "B.P." insulation board, "Glinex" flaxboard and "Hernite" hardboard and insulation board are on

Stand Designer: Peter Bender, of Russell. Cole & Bender.

Meyer, Montague L., Ltd. 263/S, 525

Wall coverings, timber and plywood and "Glamorock", the ready mixed "natural" stone facing, are shown. Stand Designer: L. Slater.

INSECTICIDES. FUMIGATORS AND WOOD PRESERVATIVES

Falkner, J. W., & Sons Ltd.

Zinc oxychloride treatment for dry rot is featured. A model shows a floor re-stored after an attack of dry rot and the steps taken in the process.

Hicksons Timber Impregnation Co. (G.B.) Ltd.

The construction of the stand demon-strates how both "Tanalised" and "Pyrostrates how both "Tanalised" and "Pyro-lith" treated timbers can be used in various types of building construction, and shows how the architect should choose which treatment to use in a par-ticular situation. The other products shown include "Pyrestos" flameproofed fibra insulation, beard fibre insulation board.

Pestcure Ltd. 504

The stand is designed to show the outside wall of a house with causes of decay—stopped-up gutters, broken downpipes and so on—and models on the other side of the wall show the damage done. Large-scale models show the life cycle of the four main timber destroying beetles and the remedies. Photographs of successful treatments are also shown. Stand Designer: Anthony Clark, F.R.I.B.A.

Protim Ltd.

This display stresses the importance of pre-treatment of softwood timber with a preservative when its utilization may render it susceptible to either fungus (wet or dry rot) or insect attack. The Protimeter Surveymaster moisture meter is also shown and is available to all those who wish to test the moisture content of timber, brickwork, plaster, concrete, etc.



No. LHL airgun fastener by Spotnails Itd.

Rentokil Ltd.

500, 501

Specimens of decayed timber and of woodboring insects with suggested remedies and details of the service by the com-panion company, Woodworm & Dry Rot Control, are displayed. The Fetcham injector/sprayer for applying timber fluids is featured.

INSULATING BOARDS AND MATERIALS

British Celanese Ltd.

Thermal insulation, acoustic control and air filtration materials, all made from Fibroceta bonded acetate, form the subject of this display. Bondalay, faced normally with aluminium foil, combines conduction and convection insulation with radiant heat reflection properties and is shown in a new form of cold water tank lagging, covered with a plastics film in place of the aluminium

Stand Designer: W. A. Field, M.S.I.A.

Burgess Products Co. Ltd.

The Burgess exhibits of insulation and acoustic materials are constructed in the form of a lounge and includes new developments to be shown for the first time. Acoustic tiles are now manufactured in 12 modules and are stove enamelled to any B.S. shade.

New: Burgess Ribtile and square edge

Cape Building Products Ltd. 239/P

Colour in architecture is the motif of Colour in architecture is the moun of this stand which features Asbestolux and Uxbridge facing bricks together with a range of other products—Polyester-coated Asbestolux (a new finish); nylon screw caps to match; butyl fillers; P.V.C. coated Asbestolux; Asbestolux veneered with enamel sheet; and Mineralite-faced Asbestolux; many of which are shown for the first time.

Celotex Ltd.

Eight ceilings and linings staggered at three different levels are shown on this stand. There are painting demonstrations on Celotex Sealcoat hardboard throughout the day. Among the products on

Ramset fastener by Ramset Fasteners (U.K.) Ltd.



flame-resistant insulating show are board, insulating and building boards, roof insulation board, acoustical products, cane fibre decorative ceiling tiles, sarking, Flexcell expansion jointing and metal fixing systems.

Fibreglass Ltd.

Crown glass wool insulation which was recently introduced may be inspected on recently introduced may be inspected on this stand. It is a glass wool mat of long fine fibres, by volume 99-52 per cent still air and is shown in various forms. Established products including cavity wall insulation, rigid-section moulded pipe insulation, acoustic tiles, L.A. tank sets and air filters are also featured. sets and air filters are also featured.

Stand Designer: Notley Advertising Ltd.

Hermeseal Acoustics Ltd.

Wall and ceiling treatments, using decorative acoustic tiles are demonstrated and a sound-box shows the difference in sound absorption of two identical spaces, one untreated and the other surfaced with acoustic tiles.

Insulated Unit Constructions Ltd.

Displayed on this stand are three Vagalith woodwool slabs, one being a new product. They are suitable for structural insulation of flat or pitch roofs, for internal partitions, for permanent lining to concrete walls and roofs and for roof sarking under a suitable covering.

Jablo Plastics Industries Ltd. 730

The application of Jablite insulation to The application of Jablite insulation to all standard forms of construction including permanent shuttering in hollow concrete members for curtain walling; as a dry screed; insulant for underfloor heating; gap fill and expansion joint for road haunching beams; insulation of concrete soffits by using Jablite as permanent shuttering, etc., are shown.

Combined refrigerator and heat pump by English Rose Kitchens Ltd.



Pyrok Ltd.

67/D

A 6ft dia revolving hollow fibrous plaster globe with indicator lights mark-ing the principal Pyrok distribution centres throughout the world is the main feature of the stand. Photographic main feature of the stand. Photographic murals illustrate various uses and applications of Pyrok and samples of the colour finishes are also on show.

Stand Designer: John H. D. Madin, Dip.Arch., A.R.I.B.A.

Stramit Boards Ltd.

197, 198/L

Lightweight corrugated asbestos cement sheeting, manufactured exclusively for Stramit roof decking is displayed for the first time. Another new product on show roof insulation slab, showerproof on one side and a white vinyl facing on the other. This slab is designed for roof decking under asbestos sheeting of in-dustrial and agricultural buildings where there is high humídity.

JOINERY, CARVING, MOULDING AND PANELLINGS

Austins of East Ham Ltd.

"Lustalite", a plastics-faced window, introduced in prototype at an earlier exhibi-tion this year, is featured on this stand. This product, a plastics extrusion on a solid timber core, has been modified and is now available in a range of modular sizes. Also new to Austins is a 4ft direct-glazed frame in their standard storm-proof windows. Grangewood partitions, a multi-panelled garage door on Henderson upward opening gear, and a fitted standard kitchen are also shown.

New: Lustalite plastic window 4ft directglazed frame.

Boulton & Paul Ltd. 246, 247/Q

Examples of standard joinery including a staircase designed and made by this firm may be seen on the stand.

Stand Designer: G. & W. Waller Ltd.

JOINT SEALING COMPOUNDS AND EXPANSION JOINTING

Expandite Ltd.

Sealing compounds, galvanizing and waterproof materials, and anti-corrosion treatment are exhibited. New, and shown for the first time, is a range of Sealanco putties and glazing compounds.

North British Rubber Co. Ltd. 278, 279/T

The emphasis of this display is on a variety of hoses. Also featured are expansion joints used in a variety of engineering projects. Protective footwear and clothing are shown and "Tredaire" carpet underlay which is vermin-proof, rot-proof and does not fray or crumble. Rubber conveyor belting for mechanical handling. P.V.C. belting and a display Paraflor rubber flooring are also to

Secomastic Ltd. 174/K

A full range of building mastics and guns and preformed sealer Secostrip are shown. Galvafroid zinc paint with its various applications to iron and steel

and its compatability with hot galvanizing will also be displayed. New: Secoflex, a bituminous sealer.

KILN DRYING EQUIPMENT

Kunz, H. K., Ltd.

Timber drying kilns, portable and conventional automatic oil-fired air heaters and a turbo concrete mixer and sawdust briquettor are shown. Also displayed are a two-drum sanding machine and a debarking machine.

KITCHEN AND CANTEEN EQUIPMENT AND FITTINGS

Andrews Bros. (Bristol) Ltd. 533

Flizabeth Ann kitchen furniture and stainless steel sinks and drainer tops are being demonstrated in two lay-outs— 21in and 18in widths of units. Staff will be available to advise on kitchen plan-

Arthur Productions (Clydebank) Ltd. 671

Arthur Productions are showing their "Ideal" knock-down sink cabinets which they have recently introduced.

Cannon (GA) Ltd.

Two new appliances-the Cannon cooker and Foldaway barbecue-grill; and a builtin mixer, blender, juicer and knife sharpener, are on show together with a range of space heaters.

K. L. Cobb Group of Companies 516, 518

Kitchen furniture and sink cabinets with canted front, dust-eliminating fronts and top-hung sliding doors with a top-hung sliding doors with a "Kolceal" delivery hatch are shown by the parent company, K. L. Cobb Ltd. Of their subsidiary companies, A. Beanes & Co. show a rotating display of purpose-made metal windows in aluminium, bronze and steel, and are responsible for curtain walling used on the stand; Black and White (Accrington) Ltd. show a section of an m.s. oil storage tank, a Kite-marked aluminized open top cistern and catergalvanized open top gistern, and cater-ing equipment including hot cupboards, sterilizing sinks and a 20gal dual-purpose boiling pan.

Stand Designer: Clarion Display of

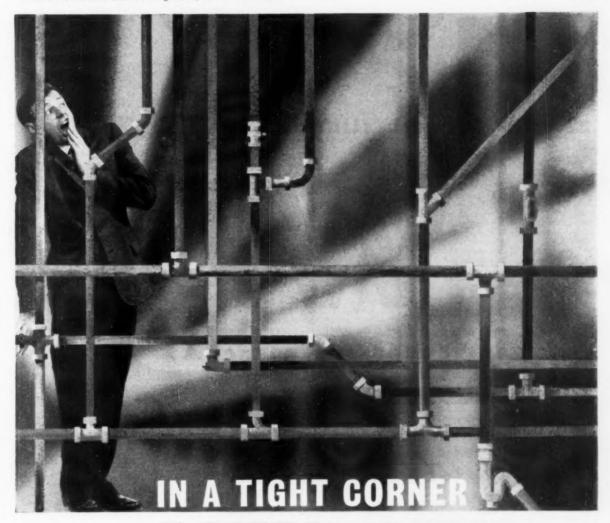
Luton.

Dahl Brothers Ltd.

All products on this stand are on show for the first time and are of Scandinavian origin. A.P.K. cable clips and other fixing devices, and Easilux grocery cabinets are among other products on show and the feature of the stand is the Scandia stainless steel sink top, including overflow, due, and waste outlet. It will fit flow duct and waste outlet. It will fit into all British Standard cabinets. Stand Designer: Consul Displays.

English Rose Kitchens Ltd.

A new appliance combining sliding-door refrigerator and heat numb is being in-troduced at the Exhibition. It provided domestic hot water, six cu ft of refrigera-tion interior at normal temperature and cold air to kitchen when required. Stand Designer: P. Paul.



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774

EXHIBITION REPORT

Hygena Ltd.

New designs demonstrating how washing machines and dryers can be fitted more conveniently into the kitchen or utility room, and new designs for fitting up food centre, with particular attention to cooking combinations, food storage, ventilation and refrigeration are shown. New techniques and have also been introduced as features for flush enamel interiors and exteriors. Stand Designer: G. Fejer, M.S.I.A., Stand Designer: G. F.R.S.A., Dip.Arch.E.th.

Nordia Unit Kitchen Systems Ltd. 816, 817, 818

Self-locking Nordia system wooden units, stainless steel and Fibreglass sink tops, and continuous Formica tops for kitchen and packaged kitchen units are exhibited.

Peerless Built-in Furniture Ltd.

A new range of site assembly built-in kitchen furniture, and bedroom units, comprising 22 individual units, are introduced for the first time. The kitchen package units which were introduced at the last Building Exhibition are again shown with latest developments.

Redwing Ltd.

This stand display shows a fitted "Silverwing" kitchen in a new colour com-bination of yellow and black and the new range of "Brooklyn" kitchen fittings in basic sizes 36in by 18in. Stand Designer: Barrett Bros.

Sissons, W. & G., Ltd. 712

The display consists of a complete range of domestic stainless steel sinks, sink units and two full kitchen layouts, including an entirely new series of cabinet designs by H. F. Bartram, Des. R.C.A. Two new stainless steel sinks are also on show in addition to a variety of sinks for special purposes and a catering size food waste disposal unit, the "Whirl-a-Waste".

Wrighton, F., & Sons Ltd.

Kitchen furniture, some of which is finished with Wrighton Decpol Polyester, is displayed on this stand. A range of kitchen cabinets, sink units, shelves, refrigerator housing units, tables, wall units and lightweight stacking chairs are among the exhibits.

LABORATORY FURNITURE AND EQUIPMENT

Brown, Donald (Brownall) Ltd.

843, 844

Corrosion-resistant laboratory fittings, i.e., swan-neck taps, two- and three-way fittings. bib taps, gas cocks, vacuum cocks and needle valves, form a large part of the exhibit. All taps conform to B.S.S. 1010/ 59 requirements. The Brownall range of bronze weldable copper tube fittings, for hot and cold water heating and sanitary installation, are also prominently displayed.

Cygnet Joinery Ltd.

This company gives a full service in laboratory furnishing, design, manufac-ture and installation, and will be showing specimens of fume cupboards and special laboratory units.

Griffin & George (Sales) Ltd.

The group's new style metal furniture for the laboratory is exhibited for the first time. In addition they show their furniture in wood and scientific apparatus for soil mechanics. Advice on labora-tory installation is offered.

LAMINATED PLASTICS, DECORATIVE

Formica Ltd.

589, 590, 591

735

Formica Beautyboard, a new construc-tional board composed of a plastic tional board composed of a plastic decorative surface with a specially constructed laminated wood core and plastic counter veneer, introduced at the International Plastics Exhibition this year, is shown. It will be available to a limited extent this month. Decorative veneers in standard and work repages and applies. standard and work ranges and applica-tions of Formica standard veneers and

curved surfaces are also shown.

Stand Designer: C. Munro, M.B.E.,
A.R.I.B.A.

North British Plastics Ltd. 670

Decorative hardboard and the in decorative laminated plastic and sheeting are shown, together with a cocktail bar, dinette set and shower cubicle.

Stand Designer: Redheads Advertising

LIGHTING, DOMESTIC, INDUSTRIAL, FLOODLIGHTING AND STREET LIGHTING

Falk Stadelmann & Co. Ltd. 775, 776

Commercial tungsten and fluorescent lighting fittings, house consumer units, exterior lighting fittings, infra-red and immersion heaters and a range of technical fittings and floor-warming cables are on show. An addition to the range is a new infra red well for a new infra-red wall fire.

Stand Designer: Print Processes Ltd.

S.F.I.M. (Great Britain) Ltd.

The Isora ceiling, a continental invention which is an illuminating ceiling with thermal insulation and employing a thin tough film of P.V.C. as the trans lucent medium, is shown on this stand. (It was described more fully in the A. & B.N., March 4, 1959.) A new A.E.I. lighting fitting, specially designed for the Isora ceiling and coloured and opaque ceiling panels, is also displayed. Stand Designer: EGC Ltd

Siemens Edison Swan Ltd. 25/B

A completely new system for carrying overhead lighting, electrical fittings, and cables and conduits in commercial and industrial buildings may be seen for the first time. The new trunking is based on a rigid and light steel channel section incorporating twin unobserved cable troughs and is available in 15ft lengths. Fittings and accessories have been designed to allow continuous, unobstructed runways for the cables. A simple trunking terminal connector enables tappings to be made at any point without strip-ping the insulation off the conductor or using terminal blocks.

LOCKS AND SAFES

Josiah Parkes & Sons Ltd.

A complete range of all types of locks and padlocks, door closers, floor springs and door furniture are displayed.

Yale & Towne Manufacturing Co.

New products exhibited include the new Yale "Balmoral" letter plate, which is based on G.P.O. recommendations for minimum aperture size. It is of alu-minium alloy with an anodised finish and requires no polishing to keep it clean. The Cylinder Rim Deadlatch is specially designed for glass-panelled doors and the bolt is automatically deadlocked when the door is closed and by turning the key in the inside knob, rotation of the handle is prevented. A new five-lever Mortice lock is also shown.

LUBRICANTS

Revol Ltd.

659

Working models of gear-driven machines, exposed and enclosed, demonstrate the use of graphited transmission lubricants. Voler Reductol Heavy Duty graphited lubricant for enclosed gears is intro-

Stand Designer: Driscoll Bros. Ltd.

MARBLES AND MOSAICS

Barwin, P., Ltd.

Joo Gresite glazed ceramic mosaics for interior and exterior walls and floors, with Carborundum inserted in the glaze for slip-proof flooring; mosaic flooring (with Joo Gresite mosaics set in rubber); and glass mosaics, made in Italy, are exhibited.

Elder Reed, A., & Co. Ltd. 140/G

Contracts in the London area where extensive use has been made of Saivo glass mosaics are illustrated on this stand. Floor finishes such as terrazzo stand. Floor finishes such as terrazzo tiles, random marble, pebble tiles, quarzite and magnesite, and wall finishes such as Saivo glass mosaics, Vaccari ceramic mosaics, rustic marble pieces and quarzite are featured. Also displayed are silica sand and pre-coloured aggregates. All kinds of tile-making mechinery, both British and Italian are machinery, both British and Italian, are illustrated

Turnbull, Stand Designer: Peter A.R.I.B.A., A.A.Dip.

Williams, Dennis M., Ltd. and Allied Brick & Tile Co. 29, 30/B

New textured face mosaics and glazed, semi-glazed, unglazed, glass porcelain and textured surfaces are shown together with mosaic murals and illustrations of buildings completely clad in mosaic. The stand is shared with the Allied Brick & Tile Co. who show pressed bricks, hand-moulded bricks, quarry tile cills and glazed external facings. Stand Designer: Arnold Rattenbury.

MARKING DEVICES

Heller & Sons (Engineers) Ltd. 661

"Per-Met" Rigidex Polyethylene stencils, which have been in production for the past 10 months, are on show in this range of stencils, branding irons, steel and rubber stamps and all accessories.

Stand Designer: T. S. Preedy & Sons I td.

METAL PRESERVATIVES AND RUSTPROOFINGS

Zinc Alloy Rust-Proofing Co. Ltd. 272/T

Rust-proofing by the sherardizing pro-cess and general metal preserving is the theme of the display on this stand. Stand Designer: Barretts Ltd.

OFFICE AND SCHOOL EQUIPMENT AND SERVICES

Adapta Charts Ltd. 781

Chief interest is in visual control of projects by means of mechanical charts. The Rotalyne Movigraph chart, for plotting 50 jobs at a time, and the plotting 50 jobs at a time, and the "Presson" self-adhesive label holder are featured Stand Designer: John Edgington Ltd.

Norwood Steel Equipment Ltd. 748, 778a

Newspan storage equipment and a new commercial office desk are shown for the first time in this display of steel office internal partitioning, furniture and storage equipment. Stand 778a consists of a closed stand using office partitioning with office settings. Stand Designer: Barrett Brothers.

Rotaprint Ltd.

Two small offset printing machines are displayed.

727

Specifile Ltd.

This company runs a technical information service for architects and the build-ing industry. Details of the design and technical literature service, the make-up of the architectural profession and the extent of the coverage of the service are given

Stand Designer: Brunton, Baden Hellard & Boobyer, A./A./A.R.I.B.A.

OIL-FIRED EQUIPMENT

Charringtons Ltd.

The firm's services applied to the building trade as well as to householders will be demonstrated. These services include advice and help on drawing up oil-fired heating schemes, assistance in demon-stration of oil-fired equipment in show-houses and the commissioning of oilfired plant by carrying out combustion tests and setting up the burner for maximum efficiency. A heating draughtsman will be in attendance to deal with techniqueries. The company are suppliers of both solid and liquid fuels.

Stand Designer: J. W. Artists Ltd.

Delmore Engineering Co. Ltd. 763

A selection of oil-fired boilers and a natural draught vapourising pot are shown

New: Series 2 Delmore Domestic and De Luxe Model 60, introduced last month.

Gold Flame Oil Burners Ltd.

An interesting feature of this stand is the Gold Flame Junior Bantam Oil Burner, with special combustion head and prefabricated external combustion chamber, designed for use with the Crane Cavendish Boiler. Also shown is the Dragex Flue Stabilizer with an easily read dial, the Jabic Oil Gauge for all fuel tanks up to 5ft high and the Gold Flame LG/PH 2-Stage Oil Burner.

Groveley Heating Ltd. 621

The company specializes in the manufacture of a range of oil burner-boiler units suitable for hot water and central heating, ranging from 50,000 B.Th.U. to 600,000 B.Th.U.

Nu-Way Heating Plants Ltd.

A representative display of burners for firing central heating, hot water and steam boilers, warm air heaters, etc., by fuel oil, are shown.

New: Nu-Way Model SB—a fully automatic industrial burner and the Robot Rotovac Oil-firing—a system for oil-firing boiler plant with full automation. Stand Designer: Linclair Advertising Ltd.

Charles Portway & Son Ltd.

Three sizes of oil-fired boilers and a new combustion efficiency test kit, shown for the first time in this country, may be

Stand Designer: Ideal Sign & Exhibition Stand Fitting Co.

213/N Potterton, Thomas, Ltd.

The new BOA series pressure jet oilfired boiler, recently introduced, is the most interesting appliance on show and is working against a typical domestic boilerhouse background. The Potterton warm air unit is installed on the stand to demonstrate its uses on the rafters in the roof of a house or bungalow. Diplomat gas-fired boilers, ducting, lagging and fitting of outlet and recircula-tion grilles are also shown.

Rubery Owen (Heating) Ltd.

The range of oil-fired domestic and industrial burners and boilers includes two new models for small and large house uses. Mechanair (R.O.) Ltd., a member company of the Owen organization, show samples of fuel-storage tanks.

Trianco Ltd. 229, 230/P

Domestic gravity feed boilers, and other solid fuel automatic gravity feed boilers, fireplace accessories and oil-fired equipment are shown.

Stand Designer: Thames Display Co.

Valor Co. Ltd.

Oil-fired hot-water boilers (two sizes), Valor radiant and convector heaters,



ZLI Miniature fully automatic oil burner by Nu-Way Heating Plants Ltd

bath mixers and hot- and cold-water taps and plumbers' valves and fire extinguishers are among the products shown.

Stand Designer: Art Display Ltd.

PAINT AND RUST REMOVERS

Skarsten Manufacturing Co. Ltd. 820

Plastic letter plates are the newest exhibit on this stand. Main products are scrapers for wood smoothing and paint removing, electric strippers, blow torch and ceiling wall scrapers and the Awlscrew screw-

PAINT BRUSHES. ROLLERS, DECORATORS' TOOLS AND EQUIPMENT

Briton Brush Co. Ltd.

Brooms and brushes for the building

trade, paint, varnish and distemper brushes, sash tools, fitches, limers, paint rollers and tools are being shown. Stand Designer: Willsmore & Tibbenham.

Hamilton Star Ltd.

Painting brushes and brooms of all kinds are displayed. Stand Designer: Beck & Pollitzer Ltd.

821 Webb, Jarratt & Co. Ltd.

Wall, decorators and "Snowcem" brushes. jamb dusters, paper hanger's brushes. nylon paint and wall brushes are shown The company has returned to the Building Exhibition for the first time since pre-war days.

Easifire automatic gas oil turner unit, Model No. 1, by Rubery Owen (Heating) Ltd



PAINTS, VARNISHES. ENAMELS, DISTEMPERS AND STAINS

Denton Edwards Paints Ltd. 852

Non-poisonous permanent fungicidal and bactericidal paints by the Dentolite process; Silexine genuine stone paint and standard proprietary gloss and emulsion paints are displayed.

Stand Designer: Cockade Ltd.

Duresco Products Ltd.

The stand is prefabricated from timber studding and plasterboard and has been planned with a demonstration area for viewing colour transparencies of major contracts where Duresco products have been used for decorative purposes. Silkas and Silkasheen are two new finishes which are prominently displayed.

Stand Designer: A. J. Riggs Ltd.

822

800

Gay, R., & Co.

Gaymel gloss finishes, undercoats, primers and preparatory coats for all types of building surfaces are shown as Gaymel a special centenary year display. A feature of the stand is an exhibit of sections using materials commonly used in building and showing correct paint treatments

Stand Designer: Derek Newton & Associates.

Pearl Varnish Co. Ltd. 813

A scaled-down version of the Official Test Apparatus used at the Fire Research Station is demonstrated at frequent intervals in order to show the efficiency of Trerock Flame Retardant decorative paint when applied to plain and per-forated fibre insulation board, hard-board, timber, etc. Stand Designer: Priestley Studios Ltd.

Sanderson, A., & Co. Ltd.

The stand has been designed to inform the trade of latest developments in paint treatments, particularly the solution of such problems as efflorescence, corrosion and underbound surfaces. Three new features are introduced—the Kurust anti-corrosive primer; Kinseal, a new emulsion sealer for underbound surfaces; and Kingston P.V.A. water paint for use on new plaster still holding water. Stand Designer: Pullman Displays Ltd.

Sherwoods Paints Ltd. 801

The stand is in two parts: a set piece which is a half-section of a drawing-room, decorated with the company's principal finishes; and a reception area.

Smith & Walton Ltd.

The Hadrian technical laboratory and decorative studios service, backing up the company's range of paints, varnishes and wallpapers, is emphasized on this stand.

United Paint Co. Ltd. 815

The main object of this exhibit is to



The new Compactom Miniwall dwarf partitions by Compactom Ltd.

demonstrate the efficiency of various coatings for concrete, brick and similar surfaces. These include liquid stone, stone solutions, waterproof cement, textured emulsion and masonry finish.

Stand Designer: Piggott Bros. & Co. Ltd.

Walnamur Co. Ltd.

A feature of the stand is a "Craftsman's Corner" showing decorative panels by the company's interior design and decorating staff. Colour intermixing in various materials is also illustrated and there is a new product, Polyurethene lacquer.

PAPERS, WALL AND WATERPROOF

Wall Paper Manufacturers Ltd. 850, 851

A comprehensive range of wallpapers can be seen on this stand. New patterns from the Crown machine-printed papers and examples of hand-printed papers of the "Hayward" and "Palladio" ranges are displayed. Sanderson's fabrics, Wal-pamur paints, Lincrusta, Anaglypta and Lintex, a washable wall fabric recently introduced, are also shown. Advice on any aspect of interior decoration is available.

PARTITIONS

British Werno Ltd. 613

This company deals in movable dry partitions and they will be showing fire-resistant plaster board panels, faced with plastic sheeting, and assembled either with flush vee-joints or plastic insert to joint; together with doors and fully glazed screens with metal trim.

Stand Designer: Beck & Pollitzer.

Compactom Ltd.

Compactom Miniwall, a new conception of dwarf partition or barrier screen, is included in a representative selection of height and free-standing partitions and acoustic ceiling work. Radiator casings and built-in cupboards will also be

Harvey, G. A., & Co. (London) Ltd. 132, 133/G

Office partitioning is being shown for the first time on Harvey's stand. It is de-

signed to be a rigid and permanent structure which can be altered or dismantled without damage and with little cost. There are both full-height and barrier types of partitions, with varied arrangements. Another section of the stand covers the whole range of builders' merchants' goods manufactured under the "Harco" brand including rainwater goods, tanks, cylinders, cisterns, cowls and cloakroom fittings.

Stand Designer: F. Austen & Sons Ltd.

Stand Designer: F. Austen & Sons Ltd.

Home Fittings (Great Britain) Ltd. 656, 658

Modernfold expanding walls and doors designed to utilize all available space in buildings are the prominent features of which are the profile the trainers of the Wallfold walls and doors, which are also displayed together with the company's range of Sun-Aire venetian blinds.

PAVING STONES AND SLABS

Noelite Ltd.

Pre-cast concrete paving in many sizes and five colours with a non-slip surface and dwarf walling in various sizes and thicknesses are shown.

Stand Designer: L. Nixon, A.R.I.B.A.

PIPES AND CONDUITS, GAS. WATER AND ELECTRICITY

Stanton Ironworks Co. Ltd. 747

Main products are shown photographically and by samples. Spun iron oines, now made in diameters up to iron drain pipes and fittings; brackets 48in, and various flexible joints, cast for prestressed spun concrete lighting columns and the base section of a pre-stressed concrete lighting column showstressed concrete lighting column showing the gear compartment fitted with electrical control units (outside dimensions: 7in by 7½in) are displayed. Prestressed and normally reinforced spun concrete pipes; Stanton blast furnace slag, coated or dry, used for many purposes in addition to road making, and a new lightweight aggregate manufac-tured from expanded blast furnace slag, used in the manufacture of building blocks are also on view.

157/H

PIPES, DRAIN AND SEWAGE

Key Engineering Co. Ltd. 145, 146/H

Pitch fibre drain, sewer and stack pipes, electrical conduits, underfloor ducts and open and closed bottom dado and skirting ducts are shown.

Stand Designer: Kenneth G. Pick.

PIPE FITTINGS

Kay & Co. (Engineers) Ltd. 758

Kontite pipe fittings, a wide range of fittings for different types of tube, are displayed, including a new Type B underground fitting.

PLASTER, PLASTERING AND FINISHING

Cafferata & Co. Ltd. 159/H

Particular emphasis is placed on "Murilite" pre-mixed perlite lightweight aggregate plaster, with examples of the grounds to which the material may be applied. There is also a sectional exhibit of the Pyrodek gypsum concrete roof-deck system, described as a low-weight roofing system with high fire resistance.

Gotham Co. Ltd. 68/I

Gypsum plasters are shown, including the Carlite range of lightweight pre-mixed plasters which have perlite, vermiculite or both aggregates which add lightness, etc. A special lighting system indicates effects possible with textured plaster panels under various lighting conditions. The main feature of the stand is a tumbling cube, presenting information on its six surfaces.

PLASTERBOARD AND WALLING

Bellrock Gypsum Industries Ltd. 165, 166/K

Bellrock plaster board, made to B.S. 1230 by a North American method, is a new addition to this company's range. Bellrock plaster panels for load-bearing walls and partitions, wall boards baseboard and lath, and multi-purpose wall plasters and industrial plasters are shown. Stand Designer: Alan Diprose, A.A.Dipl., A.R.I.B.A.

British Plaster Board (Manufacturing) Ltd. 83, 84/E

The stand has been designed as a technical advice bureau to advise visitors on all matters associated with internal partitions, internal linings and finishes. The disolay shows the various uses of "Blue Hawk" Varitiles, the new plastic-covered ceiling tile system; dry partition and insulating board, both normal and plastic faced.

Stand Designer: R. Dickens, M.B.E., F.S.I.A.

Gyproc Products Ltd.

New Gyproc acoustic tiles for sound absorption, fire protection and thermal insulation are shown in a display which emphasizes the thermal insulation and fire-resistant properties of the company's products. A full range of Gyproc wall-board and lath and baseboard, suspended ceilings, beam encasement (for fire protection) and so on will be on display. Stand Designer: C. S. Denny.

32/B

173/K

PLUGS AND WALL FIXINGS

Philplug Ltd.

On display are fixings of all types using Screwfix anchor and stud bolts, Tuncarb drills and cold caulking compounds: a new formulation of cold caulking compound P.C.4.

Rawlplug Co. Ltd. 191, 192/L

A comprehensive display of Rawlplug fixing devices and other masonry boring tools is shown and special units have been constructed to show the practical application of Rawlties, Rawloops and Rawlhangers which are used in concrete constructional formwork.

PLUMBING AND PLUMBERS BRASSFOUNDRY

Barking Brassware Co. Ltd. 576

The range of fittings including bath and shower mixers, the new deck Biflo fitting for connection to multi-point geysers or storage heaters and spray taps for schools, etc., are shown.

Stand Designer: Maple & Co. Ltd.

Conex-Terna Ltd. and Sanbra Ltd. 61/D

Radiator valves, compression joints, stopcocks, valves and other plumbing materials form the Conex-Terna display. Sanbra show a range of plumbers' brassfoundry approved by the Co.I.D. including taps, mixers and combination lavatory basin and bidet fittings.

Stand Designer: William Street Ltd.

Econa Modern Products Ltd 23/B

Laboratory equipment will be in operation, enabling the effects of siphonage on traps to be studied visually. Resealing bottle traps, tubular copper traps, copper radiators and towel rails, and multibranch soil units make up the rest of this display.

Stand Designer: Graham Wintringham, A.R.I.B.A., S. T. Walker & Partners.

Folkard, J. S. & F., Ltd. 60

Prominence is given to the Vulcathene plastic plumbing and Vultex metal valves and equipment. Vulcathene is a system of plumbing equipment for covering pipes and pipe fittines, valves, vessels, etc., for controlling the flow of liquid, especially liquids of a corrosive nature. Vultex is a range of metal control valves and ancillary equipment for hospitals, laboratories and industrial and domestic

Greenwood & Hughes Ltd. 594a

The full range of Grevak anti-siphon waste traps is on show. These have a



R.P.2. electric drill by the Rawlplug Co. Ltd.

horizontal compensating water chamber, ensuring a positive seal and the bituminous lined smooth bore facilitates selfcleansing. There is a removable base. Stand Designer: Beck & Pollitzer Ltd.

King's Langley Engineering Co. Ltd. 509, 510

A new range of two-piece copper traps and fittings, considered simple and fool-proof in joining, is shown. There is some emphasis also on small-bore central heating and the Kingley-BRS diaphragm type ball-valve will also be on view.

Stand Designer: Earls Court Stand Fitting Co.

Peglers Ltd. 96/E

This is a comprehensive display of fittings for plumbers and engineers including a varied selection of Prestex compression joints with heavy and lightweight copper and plastic pipes, some of which are new patterns introduced during the last few months. Sink mixers and sink fittings with new style headworks and new swivel nozzles are among the speciality lines shown for the first time. The Prestex S.26, the new push-button operated gas storage water heater, is also on the stand.

PREFABRICATED SYSTEMS, COMPONENTS, CLADDING, UNITS, ETC.

Atlas Stone Co. Ltd. 24/H

A new product, Windowall, is introduced. It is a slender factory-made, reinforced concrete glazing unit which, when bedded together with cement mortar, forms a self-supporting glazed wall. Other products on show are Shadowal, a pressed concrete building block with a partially recessed face, introduced earlier this year. Spectra-Glaze glazed concrete building block, asbestos cement products, reconstructed stone and structural concrete.

Marley Concrete Ltd. 8/A

Pre-cast agricultural and industrial buildings, garages and coal bunkers are shown in models and illustrations on a separate stand from the main Marley Tile stand. Stand Designer: Wilfred Watkin and David Kerslake.

RAINWATER GOODS

Finlock Gutters Ltd. 274/T

A wide range of combined precast concrete eaves units and gutters, incorporating patent in situ lintol trough, may be seen and discussed with the technical staff on the stand. It is claimed that these products require no painting or maintenance.

A 20-year guarantee is

CORRUGATED GLASS FIBRE SHEET

maintenance-free daylight

RILITE glass-fibre sheeting, which can replace all standard sizes of corrugated asbestos or galvanised iron roofing, gives ample daylight at minimum cost. Low installation cost, because it is worked with ordinary hand tools and needs no special framing—NO maintenance cost because it is shatterproof and impervious to atmospheric conditions.

RILITE is produced with an exceptionally high degree of clarity, and at the same time diffuses the light of the sun.



Installed more easily than

Where fire risks are present it may be advisable to use FIRE-PROTECTIVE F.R. RILITE. This has been tested by the D.S.I.R. in accordance with the requirements of B.S.476: Part 3: 1958. It is the first glass-fibre sheeting to be graded EXT.S.AA.—the highest grade recognised by the Standard.

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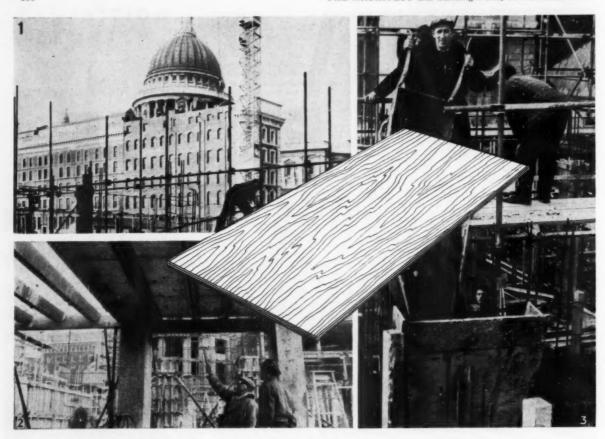


SAW

DRILL

NAIL

SCREW



Seaboard Fir Plywood in Oction!

Shown above are excellent examples of how Seaboard fir plywood saves time and reduces cost. Picture (1) shows general shot of building site with all concrete shown being poured in fir plywood forms. Picture (2) shows plywood used as shuttering for pouring slab floors.

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SEABOARD

CANADIAN DOUGLAS FIR

SEABOARD LUMBER SALES CO. LIMITED Seaboard House, Vancouver 1, Canada

EXHIBITION REPORT

available on the aluminium/bitumen lining installed in the Royston Gutter with artificial stone fascia.

Osborn, G. H., Building Products Ltd.

The main product of this company and the feature of the stand is a variety of plastic rainwater goods. Also shown are windows of glass/polyester and glass/ polyester artificial stone.

REFINERS AND DISTRIBUTORS OF PETROLEUM PRODUCTS

Esso Petroleum Co. Ltd. 723

The uses of Esso domestic and industrial heating oils and ancillary equipment "live" and static are illustrated.

Stand Designer: Beck & Pollitzer Ltd.

Shell-Mex and B.P. Ltd. 740, 741

Facts and figures on the use of oil-fired central heating in estate development together with details of actual estates equipped with oil-fired heating systems are given. There will also be information about the Shell and BP domestic fuel, service and the network of appointed installers and merchants.

REFRIGERATION EQUIPMENT

Electrix Ltd.

859

Four new domestic electric products a heater, refrigerator, drying cabinet and towel rail—are the main exhibits. Oiloperated radiant and convector heaters, manufactured by Sterling Incandescent Co. Ltd., a sister organization, will also be on display.

Electrolux Ltd. 262/8

The M.27 built-in refrigerator, which operates either by gas or electricity, is featured on this stand together with other products.

REINFORCED AND PRESTRESSED CONCRETE MANUFACTURERS

Concrete Ltd. 64, 65/I

The stand, a pre-cast prestressed concrete structure, is designed to include elements of Bison prestressed floors and purlin roofs. Photographs, drawings and full and reduced scale sections show details of actual units manufactured by the company. Of these, hollow plank composite floors, pre-cast cross wall frame structures, a system of cast in ducting and prestressed bridge beams are shown for the first time at the Building Exhibition. Load tests are also

being carried out, on the stand, on composite plank and hollow floors.

Stand Designer: Stillman & Eastwick Field, A./A.R.I.B.A.

Johnson's Reinforced Concrete Engineering Co. Ltd. 44/C

Films demonstrate a new hooking or hinging system for the supply of wide sheets of reinforcement fabric. This method enables very large widths to be laid without side laps, thus easing handling on site. Bricktor wall reinforcement, examples of welded wirework and prefabricated joists and brackets are also featured. Recently completed works are shown by means of a series of photographs.

REINFORCEMENT, FABRICS, RODS, ETC.

Expanded Metal Co. Ltd. 85/1

Different types of acoustic tile ceilings will be the main exhibits. The display will also emphasize the products and services of the company for all types of plaster construction. Lathing, angle and screed bead, picture rails and round and square nose casing beads may be seen.

Stand Designer: Reginald H. Treleaven, F.R.I.B.A.

Spencer Wire Co. Ltd. 565

"Spencer Mesh" welded high-tensile fabric reinforcement for concrete in roads and buildings; "Expanded Metal" for grilles, screens, guards, floorings, etc.; and "Self Sentering Expanded Metal," a recent addition to the range, ribbed in sheets 29in wide up to 12ft long for reinforced concrete floors, roofs, etc., are among the products displayed. Examples of designs of reinforced concrete structures by the Spencer Wire Co. (Developments) Ltd. are also on view.

Truscon Ltd. 514

The stand has been designed to suggest how Hy-Rib metal lathing might provide simple and economic solutions to concreting and plastering problems. Hy-Rib is a strongly ribbed metal lathing with a unique mesh, designed to provide a good key with both concrete and plaster. Examples will be displayed of Hy-Rib as combined shuttering and reinforcement for concrete slabs and circular tanks; and as lathing for curved and flat ceilings, partitions and wall linings.

Stand Designer: M. de St. Croix, A.R.I.B.A.

ROOFS, ALUMINIUM

British Aluminium Co. Ltd. 237/P

Aluminium and aluminium alloy flat and corrugated sheets, sections and non-slip floors are shown. Two types of the new Lokroll, interlocking roofing sheets with concealed fixing for fully supported or self-supporting roofs are introduced. Rigidal Seamwall side wall cladding, other Rigidal profiles, curtain walling, vitreous enamelled aluminium, roller shutters and venetian blinds are amongst the other products which may be seen.

Stand Designer: Hulme Chadwick, A.R.I.B.A., F.S.I.A.

Imperial Chemical Industries Ltd. 74, 75/D

The Metals Division of I.C.I. are showing a wide range of copper, brass and aluminium products. The Plastics Division's emphasis is on "Darvic" rigid P.V.C. sheet for down pipes, guttering, window surrounds and column cladding. "Vynalast"—a facing material of aemirigid P.V.C. foil with a paper backing for prefabricated boards is shown. Plasterboard, plaster, cement and a texturing finish are also on view. A silicone water repellent for treatment of masonry and silicones for heat resistant paints are among the other exhibits.

Northern Aluminium Co. Ltd. 151/H

Aluminium building sheet is featured in a wide range of profiles designed for roofing and siding of many types of building. Foremost is "Snaprib," displayed in the several finishes in which it is obtainable and in photographs illustrating its use in domestic housing, schools and other buildings. Other profiles on show include Noral "Deep Trough Industrial" sheet, which the company has recently introduced for long spans.

Reynolds T. I. Aluminium 102/F

The stand is generally designed to illustrate the uses of extruded aluminium sections in building.

Stand Designer: R. Dickens, M.B.E., F.S.I.A.

ROOFS, ASBESTOS

Turners Asbestos Cement Co. Ltd. 51, 52/C

Emphasis is placed upon thermal insulation appropriate to the Thermal Insulation (Industrial Buildings) Act, 1957. The stand incorporates a double tier and has a floor of insulated "Turnall" Interlock Decking. From this vantage point one can see the "Turnall" Colourglaze treated weathering surfaces of the various forms of asbestos cement insulated double roof cladding. A more recent development is the moulded asbestos cement lining panel which can be used with increased spacing of supports and is suitable for use with either "Turnall" Trafford tiles or "Everite" "Bigsix" corrugated sheets.

Stand Designer: Priestley Studios Ltd.

U.A.M. Group of Companies 782

The main feature is a structure built around the upper level and carefully detailed to illustrate the potentialities of asbestos cement in achieving high standards of design. The Universal Asbestos Manufacturing Co. Ltd. show various examples of asbestos cement sheets and panels in their natural state and with colour finishes. U.A.M. Plastics Ltd. display examples of the range of some 30 profiles of Unilux translucent sheeting, both natural and coloured. Union Fibre Pipes (Great Britain) Ltd. indicate the uses of pitch fibre pipes for drains and sewers. Chancery Insulations Ltd. supply "Seel" sprayed asbestos for which is claimed a combination of thermal insulation, sound absorption, fire resistance, dust exclusion, and prevention of condensation and corrosion. Stand Designer: Edward D. Mills, C.B.E., F.R.I.B.A.

Partners.

EXHIBITION REPORT

ROOFS, OTHER SPECIAL MATERIALS

Abraham, Robert, Ltd. Hardrow roofing slates and sand faced paving slabs, in random widths and lengths, are being shown on this stand.

Anderson, D., & Son Ltd. 94, 95/E This stand shows the Anderson range of insulated lightweight roof decks, built-up roofing systems, roofing felts and damp-proof courses. Their products include Pyrodek Gypsum Concrete Roofing—a fireproof system awarded a two-hour fire rating by the Fire Research Station, steel decking, aluminium decking, Andek insulating roof decking, and Thermoglas. Stand Designer: Westwood, Sons

Cellactite Co. Ltd. and Weatherall Roofing Co. Ltd. 753, 754 753, 754

The main feature of the stand is Cellac-The main feature of the stand is Cellactite fire resisting protected metal corrugated sheeting, shown as a new side wall panelling in a wide range of colour finishes. "Medway," "Hillridge" and "Hillstack" ventilators are also on show. The versatility of the Nuraphalte roof is illustrated in a full-scale hyperbolic roof exhibit.

Dowty Seals Ltd. 324/Q

The two main products on this stand are "Spats" roof fixture sealing washers and "Topats" protective caps for roof bolts, both on show for the first time. The "Selon" nylon captive sealing washer for screwed assemblies can also be seen. Other products include a vacuum and pressure valve for industrial and scientific gas installations and a selection of the range of rubber mouldings and mechanical seals.

Holloway Metal Roofs Ltd. 568

Copper and zinc roofing and copper wall ties, copper expansion cramps, jointing and pictorial displays of recent contracts are shown.

Stand Designer: William Spragg &

Associates

Nuralite Co. Ltd

Throughout the Exhibition demonstra-tions will be given of the application and adaptability of Nuralite, a thermoplastic non-metallic alternative to the traditional metals for flashings for chimneys and for nearly every type of roof sheeting. Technical staff are in attendance to advise and to demonstrate the many uses of the material.

ROOFS, TILE

Colthurst Symons & Co. Ltd. 123/G

A selection of hand moulded clay roof tiles, available in a variety of glazed and unglazed finishes, with the appropriate fittings are shown.

Stand Designer: Barretts Ltd.

Crendon Concrete Company Ltd. 139/G

Roofing tiles and concrete Portal framed buildings for factories, garages and agriculture (supplied and erected com-plete by the company) and Portal spans with 18 deg. pitch up to 60 deg. span are the subject of this display. Stand Designer: G. Street & Co. Ltd.

Langley London Ltd. 111, 112/F

The stand, designed on two floors, shows some of the comprehensive range of materials for roofs, walls and floors. Among the products on show are clay roofing tiles displayed in 10 roof slopes and a gable roof, floor, cill tiles and stairtread tiles in a selection of finishes for both industrial and decorative purposes: frostproof glazed ceramic wall for both industrial and decorative purposes; frostproof glazed ceramic wall facings, some of which are shown in a three dimensional panel on the stand; glazed ceramic wall screens; and fully vitrified ceramic and glass mosaics.

Stand Designer: S. A. Victor, Contemporary Design Light

porary Design Unit.

Marley Tile Co. Ltd. 149, 150/L

The old oasthouse, hallmark of Marley at the exhibition since their first appear ance there, again dominates the stand. Featured products include space saving folding doors, vinyl rainwater goods and Marley Stairtread. Marleycel expanded polystyrene for thermal insulation, Marley Acoustic Pyramids for sound absorption and correction, and the latest Marleymura, vinyl asbestos wall tiles in plain pastel shades and black are also displayed.

Redland Tiles Ltd.

The emphasis of this stand is on roofing tiles, particularly the Redland Stonewold slates, but it includes concrete pipes manufactured by Norcon Pipes Division and a large trangular ceramic screening by the Sussex & Dorking United Brick Companies Ltd. (who also have another

Stand Designer: John A. Gosschalk, A.A.Dipl., A.R.I.B.A.

ROOFS, WOOD

Newsum, H., Sons & Co. Ltd.

This stand is constructed on the hyperbolic paraboloid timber shell roofing system. The timber shell roof is formed by the intersection of two hyperbolic paraboloids with mutually perpendicular axes. The membrane of the shell is constructed from two layers of hardwood boards laid at varying angles. Laminated arches of Douglas fir are used along two grains formed by the interalong two groins formed by the inter-section of the hyperbolic paraboloids and also along the boundaries of the surface. Details and sections of the company's products for decking, curtain walling, partitioning, and engineered timber components are also shown.

Stand Designer: L. G. Booth, M.A., Ph.D.

ROOFLIGHTS

B.I.P. Reinforced Products Ltd.

Filon translucent structural sheeting, suitable for rooflights, cladding, awnings and similar applications is displayed and is now available in colours for the first time. New: Coloured Filon.

Cascelloid Ltd.

Cascelloid's stand is being used by the British Xylonite Group and Cascalite translucent sheeting and a new plastic faced hardboard, perimeter insulation and roof insulation, flush door cores, cistern ball floats, road jointing and tank and pipe insulation sets, of rubber, polystyrene or P.V.C., panels of "Stelvetite" (Cobex P.V.C. bonded to steel sheet), Cobex transparent corrugated non-inflammable rooflighting sheets and Beythene mable rooflighting sheets and Bexthene polythene film, for curing concrete, builders' canopies and a damp-proof membrane, and styrene wall tiles are shown.

Cordar Ltd.

Cordar rooflights and Flamingo foam are exhibited; the latter is an expanded polystyrene for the insulation of build-ings. It is claimed that it can be bonded to any building material and will carry any type of finish.

Corroglaze Ltd.

Corroglaze glass roof and vertical lights, wire reinforced, are on show together with a new development, glass partitions up to 9ft 10in high, without intermediate supports and with no structural limitation to the length of run.

Gardner, G. & B., & Newton Ltd.

"Newdome" circular, square and rectangular one-piece glass rooflights; "Newdome" liners for preparing a roof to receive the rooflights; continuous barrel rooflights and "Newdome" lanterns are shown. A feature of the stand is bent

Stand Designer: Pulling & Wolsley Ltd.

lde, T. & W., Ltd.

Rectangular glass domes, continuous curved rooflights, glass cladding, wall cladding, decorative glass panels and opening rooflights are exhibited.

Marketad Ltd.

769

Milite translucent plastic sheeting to match most existing asbestos, aluminium and iron roof sheet profiles are shown. Milux decorative panels and Domelites and other exhibits from the company's plastics, electronics and air survey interests may be seen.

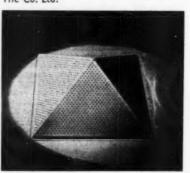
Stand Designer: Technical Publications

Plyglass Ltd.

Clear cavity Plyglass, diffusing Plyglass double glazing units, Vitroslab infill panels, decorative Plyglass and rooflights are on show. Willink Designer: Stand

A.R.I.B.A.

Marley Acoustic Pyramid by the Marley Tile Co. Ltd.



EXHIBITION REPORT

SAND AND AGGREGATES

36/B Butterley Company Ltd.

The stand is constructed mainly of "Aglite" concrete showing typical uses, including a post-tensioned prestressed structure of reinforced concrete members. Screeds (with different floor finishes) and wall finishes (claddings and decorative finishes for concrete) are shown. Aglite is a high-strength sintered-clay aggregate which may be used as an alternative to natural aggregate.

Stand Designer: Ove Arup & Partners.

SANITARY FITTINGS AND APPLIANCES

Belco Manufacturing Company (1939) Ltd. 2, 3/A

A new thermostatically controlled water fitting, manufactured by this company under a Swiss royalty, is shown on the under a Swiss royalty, is shown on the stand and visitors can manipulate the valve under working conditions. The fitting is claimed to be 100 per cent antiscald, with a static water temperature. For added safety for children and mental institutions and, presumably, building exhibitors—control can be locked in any position. The thermostat is operated by a bellow spring, controlled by a sealed alcohol chamber. Anti-scald valves, hairdresser's fittings, bottle traps and water fittings are also being displayed.

New: The "New Protecta" water valve.

Stand Designer: Beck & Pollitzer.

Bendz Ltd.

The new "Dreh" compression joint, recently introduced for copper traps, which consists of a rolled thread in copper attached to the outlet of the trap copper attached to the outlet of the trap under pressure and eliminates the use of a jointing material, is on show for the first time. Also displayed is the "Trapeze" joint for products made from solid drawn copper tube. Incorporating the "Trapeze" is the new universal combined bath overflow assembly, and a copper soil stack unit. A new polythene valveless siphon, flushpipes, flushbends and ancillary products can also be seen.

Shires & Co. (London) Ltd.

The "Uni-lynx" close-circuited w.c. suite and the "Continental" toilet set are the main exhibits in this range of w.c. suites and flushing cisterns

Stand Designer: W. R. Symes.

SAWS, POWER AND HAND

336/Y Teles Smith Ltd.

A complete range of power saws, petrol, electrically driven and pneumatic, including a 3ft saw in action on an elm butt and the Teles petrol-driven chain saws for tree-felling and cross-cutting are dis-

Stand Designer: Ace Associated Woodwork Co. Ltd.

SCAFFOLDING APPLIANCES

Boulton Scaffolding Ltd. Boulton Scaffolding Ltd. 417/L
This stand is built up from scaffolding tubes and fittings, making use of new additions to the range. These are new adjustable stair brackets, special galvanized guard rail panels and flooring of Maxi-Span staging. The full Boulton range of scaffold fittings and the Boulton country to their safety gates mobile platbo'sun's chair, safety gates, mobile plat-form and many accessories are displayed.

British Building & Engineering Appliances Ltd.

The newly introduced No-Bolt span scaffolding is shown for the first time and it disposes entirely with conventional fittings and with bolts, nuts or screws of any kind, either loose or fixed. The components are demonstrated daily. Holcast steel formwork for wall, column and beam shuttering and flexible formwork for use on curved concrete structures are also featured.

Kwikform Ltd.

A new piece of equipment, the Kwikform adjustable column form, is shown for the first time at Olympia. It is claimed that a column 8ft high can be shuttered with this gear in less than half a man hour. The stand is constructed from the company's own manufactured equipment with bright colours used to highlight individual items. Other items to be seen are the Lattice Beam and the Kwikform range of scaffolding.

Mills Scaffold Co. Ltd.

The Mills Pecco beam is introduced for the first time in this country. It is claimed to give unsupported spans from 8ft 6in to 27ft 7in, with no intermediate propping required. There is also a lightweight Pecco beam. Other exhibits are self-lock scaffolding, patent scaffold fittings, power-operated cradles and hollow mould floors. New: Pecco Beam floor centre. Stand Designer: B.M.S. Displays.

Scaffolding (Great Britain) Ltd. 104/F

This stand features SGB scaffolding. metal lathing, structural steelwork and hire and sales activities and represents, for the first time, the new subsidiary company, SGB Shuttering Ltd., which has now taken over the specialist shuttering contract services previously provided by the SGB Shuttering Division.

Steel Scaffolding Co. Ltd.

The roof shell of the stand is an example of the company's fabrication of welded tubular steel structures combined with the use of expanded metal. The floor of the overhead lounge bears on welded tubular steel lattice beams and is affixed to the legs of two parabolic arches constructed by the same method. A full range of "Big Ben" scaffold stands, trestle stands, painters' trestles, adjustable props and trench shores are also displayed.

Sterling-Safway

Tubular steel unit frame scaffolding including special heavy gantry and grand-stand equipment; a fabricated hoist tower and a range of mobile towers are shown.

Youngman, W. C., Ltd. 472, 473/C

Two climber units, used with lightweight staging, are introduced at the exhibition



Kwikform adjustable column form by Kwikform Ltd.

to form a climbing staging. The Climber unit can be supplied by itself to carry one man or, with fly decks, to carry two men. With two men, an area of approximately 8ft in width can easily be covered. mately 8II in width can easily be covered. Each unit can be either air or electrically driven to permit a fast up and down coverage. Two climber units can be fitted to the Youngman Lightweight Staging, one at each end, giving a coverage of up to 40ft; at the touch of a button it will rise or descend as desired. Stand Designer: A. C. Braven, A.R.I.B.A., M.S.I.A., F.R.S.A.

SEWAGE TREATMENT AND LIFTING EQUIPMENT

Tuke & Bell Ltd.

Sewage distributing apparatus including a distributor of the self-dosing pattern, the Unit Pattern Lift Force Sewage Ejector and a Brownson electrically operated plunger sewage pump are exhibited.

STAIRS AND STAIRTREADS

Ferodo Ltd.

48/C

The theme of this stand is the versatility of Ferodo stairtreads and nosings, which are available in aluminium, man-ganese bronze or silver bronze channel with moulded or fabric insert and steel backed panel, in seven colours, and which are claimed to be non-slip. Stand Designer: Keith Cunningham, A.R.C.A.

Fabricated hoist tower by Sterling-Safway



EXHIBITION REPORT

STONEMASONS' TOOLS

Impregnated Diamond Products Ltd. 331/Q

Diamond impregnated grinding and edging wheels and cutting discs, stone saws, drills and drilling equipment are displayed. Machines will be available for demonstrating the cutting, edging and drilling of glass.

Stand Designer: James White & Partners Ltd.

Perkins, John M., & Smith Ltd. 357/Z

Various tools are demonstrated on masonry on the stand including drilling of large diameter holes for damp-proofing old property by means of ceramic tubes. Stand Designer: Barretts Ltd.

STONE RECONSTRUCTED AND CLEANING

Ellis, John, & Sons Ltd. 240/Q

Mosaic cladding panels in a wide range of colours and including ceramic and porcelain mosaics from Scandinavia, Germany and Italy, in a large variety of textures and finishes are shown. "Stronghold" coal bunkers, flower boxes, litter bins, bollards, rapid-floor beams, grit bins and Stafford Unit buildings based on 4ft planning grid are also shown, together with samples of building materials, such as reconstructed stone, exposed aggregate finishes, cement paint and finishes and granite concrete paving. Stand Designer: Hope Design.

Selleck Nicholls & Co. Ltd. 535

Reformite reconstructed stone blocks in three standard colours, silver grey, green and pink, with finished faces rough dressed to resemble natural stone are shown.

STRUCTURAL STEELWORK

Braby, Fredk., & Co. Ltd. 155/H

The "Eclipse" range of metal storage equipment and furniture, including some new additions, are on show. Among other Braby exhibits are the "Wall-struct" curtain-walling system, steel and aluminium windows, a vertical sliding sash made of aluminium alloy which can be used for timber frames, composite metal windows, pressed subframes and curtain walling, the "Bar Form" metal partitions and fire-resisting pressed-steel stairs, designed to take granolithic, terrazzo, marble, wood, etc. A new 3in Floodmaster pump, made by Auto Diesels Ltd. (a subsidiary company), is also to be seen on the stand. Stand Designer: Ronald Dickens, M.B.E., F.S.I.A.

Brockhouse Steel Structures Ltd. 254, 255/R

This stand draws attention to examples of buildings where the system of construction adopted by the authorities forming the Consortium of Local Authorities school programme is being used. The system's advantages of speed, flexibility and freedom of choice for internal and external finishes and economy are also displayed. The stand itself is constructed of steel components fabricated by the company and various forms of cladding are shown. The construction of the stand also shows how the design allows for differential movement, due to mining subsidence.

Dexion Ltd. 737

In addition to the range of Dexion slotted angle, two new products, Tecton engineered timber products and galvanized Dexion, are shown for the first time. The Dexion subsidiary company, Petalon Ltd., are showing Fulbora water outlets, developed in South Africa to overcome problems of draining flat roofs, paved areas, etc.; galvanized Cookson Sheeting, the basis of a complete cladding system in galvanized steel for walls and roofs; and Glitsa, a self-curing plastic floor seal, developed in Scandinavia and which may be applied to most conventional flooring materials.

Metal Sections Ltd. 127, 128/G

Building components, joists, stanchions, purlins, insulation and finishing sections, roller shutter sections, ventilating ducting, roof and side sheeting are shown. A feature of all Metsec building products which are shown is chemical pre-treatment claimed to provide a high degree of protection.

TANKS, CISTERNS AND CYLINDERS

Fordham Pressings Ltd. 751

A new lightweight white plastic cistern, the "Eterna", claimed to be unbreakable, will be shown for the first time. It measures 6in from front to back and weighs 7lb complete, including 17oz of metal. The complete range of seamless steel cisterns in porcelain enamel and galvanized finish are also to be seen.

Lawley, W. & J., Ltd. 662, 664

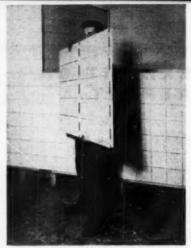
The Perfecta plastic well bottom flushing cistern and the Duo-Tone inset open overnight burning fire, designed for smoke-controlled areas, are two of the main products which also include flush pipes, plumbers' brasswork and builders' cast ironwork, shown on this stand.

Stand Designer: Beck & Pollitzer Overseas Ltd.

TILES, ACOUSTIC

Kenyon, Wm., & Sons (MetaMica) Ltd. 22/B

The main feature of the stand will be a roof canopy demonstrating a new cellular acoustic tile manufactured under licence from Asbestospray SA. (International) and New England Lime Co., which is shown with special emphasis upon acoustic applications for com-



Prefabricated tile partitioning by Pilkingtons Tiles Ltd.

plete insulation. The MetaMica firecladding system and the use of Vermiculite floor screeds and plaster are also shown.

Thermo Acoustic Products Ltd. 543

Exhibits include Echostop plaster acoustic tiles (being used in the B.B.C. Television Centre at White City), new types of patterned acoustic tiles recently introduced and tiles from the Dekora range of decorative plaster tiles for use in stores and showrooms. All plaster tiles shown can be used in conjunction with radiant ceiling heating and being of gypsum plaster, are non-combustible. Other exhibits are the Travacoustic mineral-fibre tile, available in fissured and striated patterns and the new Atona expanded polystyrene acoustic tiles.

Stand Designer: W. Field, M.S.I.A.

TILES, DECORATIVE

Carter Group of Companies 73/D

Coloured faience inserts for exterior treatment of buildings are a new addition to the Carter range of glazed tiles, mosaics (ceramic and glass), ceramic floor tiles, terrazzo and marble. The stand was built to the winning design in a competition for architects and advanced students.

Stand Designer: Nigel Lewis, Dip.Arch. (Cardiff).

Pilkingtons Tiles Ltd. 75

Pilkingtons, appearing at the exhibition for the first time, feature a new idea in glazed wall tile applications. It is a prefabricated ceramic tile partition composed of preformed panels and is designed for use as a fast, labour-saving way of putting up interior walls and partitions. The panels are in sizes up to 6ft by 3ft, and are light in weight and easy to handle. They are available in 22,000 colour and pattern combinations.

Plysu Sales Ltd. 508

A range of mosaic tiles mounted on a flexible backing and in a wide number of variations including plain colours, harlequin and random patterns, pearlescent and pre-patterned designs is on show. They are made from polystyrene and are mounted on a flexible backing in correctly aligned rows.



SIGHTHILL HEALTH CENTRE - designed by the Department of Health for Scotland.

Electric floor warming at the Sighthill Health Centre

Fully controlled warmth

Loadings

A variety of floor finishes tested

Results

Sighthill was designed as an Experimental Centre under the National Health Service Act. The building forms a hollow square round a central courtyard. The north wing holds administrative departments on the ground floor and dental theatres on the first floor. The south wing houses the joint services departments. The east wing comprises child welfare services and the west wing is divided into six medical suites.

The building is heated by electric low temperature underfloor radiant heating. This is thermostatically controlled and designed to maintain against an outside temperature of 25°F. the following inside temperatures: surgeries, recovery and X-ray rooms 70°F.; passages and lavatories 60°F.; kitchen 52°F.; other rooms 65°F. Electrical intake is "off peak" and available between 7 p.m. and 7 a.m., and 11 a.m. and 3 p.m.

Total loading amounts to 262 kW and is designed for off-peak operation. This load comprises 232 kW embedded in the concrete floors and 30 kW in concealed wall panels. The total floor area of the building is 35,000 sq. ft.

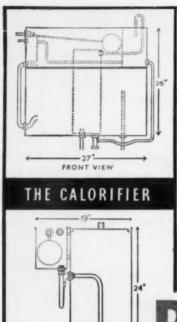
Floor finishes laid were: wood block, cork tile, thermoplastic, mastic asphalt, Caithness stone slabs and terrazzo. All these have given very satisfactory service under heated floor conditions.

The installation has been running for over five years and the average annual consumption for floor warming purposes is 418,960 units costing £1,400.

Thermograph records were taken during the winter 1955/56. These show that when, in February 1956, the mean daily outside temperature was 22.6°F., the maximum drop in inside temperature during the cut-off period was only 2.6°F. Even under these extreme conditions the internal air temperature did not fall below 60°F.



Issued by the Electrical Development Association, 2 Savoy Hill, London, W.C.2. Telephone: TEMple Bar 9434.



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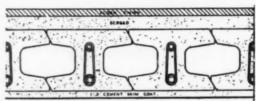
* SPARTAN

SPARTAN BEAM FLOORS have during the past sixteen years won a name for themselves chroughout the Building and Civil Engineering Industry. The Spartan Solid Floor was the first one to make use of a composite construction composed of Pre-cast reinforced Beams and reinforced in situ and prestressed filling. We are the patentees of this system which has been used with considerable success in the construction of Power Stations, Steelworks, etc.

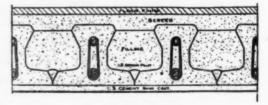
The Solid Floor system will deal with very heavy loadings whilst the Hollow Flooring system will deal with more normal loadings.

We have amassed a considerable amount of experience in the design composite floors, to take heavy loadings, and our experience is at your posal.

Our Hollow Floor with patented lock joint allows the floor to act as a unit, each Beam helping to transfer its load to the adjacent ones, an exclusive feature not available on any other floor.



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10 PRINCE'S CHAMBERS, PRINCE'S SQUARE, WOLVERHAMPTON Telephone: WOLVERHAMPTON 20343

EXHIBITION REPORT

TOOLS, HAND

Shetack Tool Works Ltd. 261/S

There is a display of Monument brand and Shetack tools and equipment. This comprehensive exhibition includes cutters for pipe, pliers for sheet, knives for cutting aluminium sheet as well as tools for forming sockets and special wrenches for helping the plumber in difficult positions. A pocket Mono-meter (or U gauge) for the air testing of drains and pipes is shown for the first time.

TOOLS, POWER

Bridges, S. N., & Co. Ltd.

301, 302/S

Portable electric tools including electric routers, woodworkers, chain mortiser, belt and orbital sanders, shears and a portable jig-saw are shown together with spray guns and compressors, polishers, drills, screwdriver attachments and contractors' kit. New: in Neonic drill.

British Equipment Co. Ltd.

On this stand various demonstrations are given of portable electric tools, in-cluding the Skil tools, reintroduced to this country after a lapse of ten years. Also shown are portable electric generating sets.

New: Skil "Recipro" saw Stand Designer: Barrett Bros. (London)

Trend Industrial Equipment Ltd. 321/P

A new wall slotting machine adapted from a Swiss design, a stair stringing machine and a blind riveting machine are among the new equipment being exhibited at the exhibition for the first time. All the machines are demonstrated under working conditions, including woodworking machinery, electric ham-mers and concrete drills.

Wolf Electric Tools Ltd. 305, 306/T

The Sandswift high-finish orbital sander The Sandswitt high-finish orbital sander is being shown for the first time and has been produced after extensive research. New Wolf double-insulated drills, in which all live parts are isolated from the casing or outside contact (which is claimed to eliminate the danger of faulty earthing), and the Wolf Limpet pages to drill strand are also shown for magnetic drill stand are also shown for the first time.

TRACTORS AND ROAD ROLLERS

Ford Motor Co. Ltd.

404, 405, 406/L

Power equipment for use in earth moving, trenching, lifting, pipe laying, and all other building operations from the preparation of the site to the final landscaping are shown.

Rolba Co. Ltd.

482/B

The "Bombardier" Muskeg tractor and The "Bombardier" Muskeg tractor and the Rolba tar and bitumen sprayer are shown. The "Bombardier" may be used as a mobile works unit, fitted with spraying equipment, welding machines, drills, etc. The exhibition vehicle is fitted with rubber-tracked trailer, winch and loading mast. The Rolba machine is suitable for smaller into the account. suitable for smaller jobs, has a capacity of 80gall and may be operated by one

Stand Designer: Beck & Pollitzer Ltd.

TUBES

667 Kaye, E. & E., Ltd.

Extruded bars, sections and drawn and extruded tubes; electrical conductors, including steel-cored aluminium conduc-tors are displayed. Stand Designer: Olympia Ltd.

Stewarts and Lloyds Ltd. 257, 258/R

The emphasis of the display is on tubes for structural work and examples of rectangular hollow sections and structural steel tubes illustrate the diversity of their applications. Tubewrights Ltd., an S. & L. subsidiary, are also showing models and pictures of some of their products, including bridges, jibs, towers, gantries and materials handling equipment. Among other exhibits on the stand is a comprehensive selection of joints for gas, water and steam, by Victaulic Co., and samples of plumbers' foundry products by John Russell & Co. Ltd., both subsidiary companies. Two 15ft mounting height, street lighting columns are erected on the stand.

Stand Designer: Olympia Ltd.

Yorkshire Imperial Metals Ltd. 113, 114/F

A large working exhibit comprising the piping arrangements from a main heat-ing unit, through a circulating pump and to six different kinds of radiators, demonstrating the use of copper tubes and fittings for small bore forced circulation central-heating systems is the main feature on this stand. Other products being shown include "Yorkshire Imperial" copper housing tubes shire Imperial" copper housing tubes with new plastic end protection caps; and "Kuterlon/Yorkalon" copper tubes in long-length coils for underground water pipelines and radiant panel heating installations; "Kuterlex" polythene and P.V.C. covered copper tubes for gas and water service pipelines; and the new "Yorcalloy" seamless fittings, in copper and alloys, for possible industrial use in large pipelines.

VALVES

Walker, Crosweller & Co. Ltd.

The Mezatap, a new auxiliary fitting for hand washing, is introduced. It is operated by a thumb push which releases exactly one pint of water in about 45 sec and yet leaves both hands free to wash. It is suggested for use in ships, trains and aircraft, where water has to be conserved. The new thermostatic valve and small thermostatic mixing valve (you can have a shower on the stand) and the Unatap, a special mixing tap, are

Stand Designer: Cockade Ltd.

VENETIAN BLINDS AND JALOUSIES

Avery, J., & Co. (Est. 1834) Ltd. 539

Dampa acoustic strip ceiling, of Danish origin, and now being manufactured for contractors in this country, and a varia-tion of the Dampa in the form of small tion of the Dampa in the form of small panels known as Parquet, are being shown by Averys. This firm is also exhibiting their range of venetian blinds and folding doors including the Girling and Eden folding doors with slats of plain pastel shade on one side and a variation of colours on the other.

New: Dampa and Parquet ceilings.

Venetian Vogue Ltd.

Blinds with new Terylene invisible tapes and Sunway venetian blinds in a variety of colours and sizes are exhibited.

Stand Designer: Toby Dunn.

VENTILATORS, AIR CONDITIONING. AND SPACE-HEATING EQUIPMENT

Brightside Heating & Engineering Co. Ltd.

This company are showing a dual-duct, high-velocity air-conditioning system for which they claim savings in building which they claim savings in building costs, more compact air-distribution system, individual room control and quietness in operation. Representative items of equipment are included, together with a section of the "Braymex" acoustic ceiling into which air diffusers, with integral lighting, are fitted.

New: A high-level unit designed to operate on chilled water from a central refrigeration plant.

refrigeration plant.

Carrier Engineering Co. Ltd.

A selection is shown of standardized air-conditioning equipment, including arrangements of the "Weathermaster" system for multi-storey buildings and a selection of components and demonstration models. Also featured are the "Weathermaker" air-conditioning plant "Weathermaker" air-conditioning plant and the 16C5 Carrier absorption refrig-eration machines, which have capacities ranging from 60 to 700 tons of refrigeration.

Wall slotting machine, Model TR/GES/1 by Trend Industrial Equipment Ltd.



EXHIBITION REPORT

Cole, E. K., Ltd. 5. 6/A

A new range of Ekco unit heaters. which operate on the forced-air principle and are designed for use in fac-tories and other large-area premises, are shown for the first time, together with convectors, reflector fires, radiant panels, tubular heaters, unit heaters, storage heaters, thermostats, for all domestic and commercial uses

New: Type "WM" convector for wall mounting with 14 and 24kW loadings. Stand Designer: Walters & Callow,

Colt Ventilation Ltd. 126/G

Both natural and powered ventilation fittings can be inspected in a wide range. For factory heating there is an entirely new range of Colt oil-fired air heaters which is being shown for the first time.
Also displayed are the Colt chimney
cowls. Canadian cedarwood shingles
and the two-way fan.

Copperad Ltd. 252, 253/R

New range of unit heaters, completely redesigned, and a demonstration Uni-pump 77 may be seen, together with other established products. Two products of the Manwood Miller group, recently acquired by Copperad, are being displayed for the first time at the exhibition. They are the Hi-C electronic air cleaner and the capillary air washer and humidifier. Stand Designer: Artique Studios Ltd.

Fenton, Byrn & Co. Ltd. 719

A range of wall fans, ceiling fans, fan convectors, dark-room attachments, roof cowls, and a standard kitchen canopy may be seen. The latest new product is the Airflow window ventilator, which can easily be fitted or moved for cleaning by one person.

Stand Designer: Beck & Pollitzer Ltd.

Greenwood's & Airvac Ventilating Co. Ltd. 122/G

For industrial application, a selection of roof extractors and louvred ventila-tors (with photographs of installations) are shown. There is also a section of patent dome and continuous rooflight ventilators for schools, hospitals and public buildings and a special section on ventilators for houses and flats. New: Three roof extractors—the Ridgeline Natural, the Mechavent roofline and the "Glazed Top" Roofline Natural. Stand Designer: Beck & Pollitzer Ltd.

Enclosed unit heater by Copperad Ltd.



Harford Pumps Ltd.

Equipment designed for use with central leating systems may be seen, including glandless Opio accelerators, the Opio pump and special proportional heat output radiator valves.

Stand Designer: Delta Displays.

Inferation Ltd.

Metal skirting and a combined clothes dryer and convector heater are the subject of this firm's display. Both are new products and are based upon a new type of plastic electric element which, in the case of the former, is incorporated within the skirting board and, in the latter, is embedded within four drying panels, which open out from the appliance. Loadings are 50W per ft run of skirting board and 150W per panel (600W total) for the clothes dryer.

Details of a new domestic heating and ventilating advisory service for problems of selection and operational efficiency of solid fuel burning appliances are available. The O.H. chimney pot for curing downdraught and stimulating up draught in domestic chimney flues is shown.

Stand Designer: Frank Turner Ltd.

Winfield Smith Engineering Supplies Ltd.

Window or ventilation fans in 6in, 8in and 10in models and wall fans are shown. The 6in model is new. Stand Designer: Design & Colour Consultants I td.

Woods of Colchester Ltd. 861

Roof extract units, including low sil-houette type "Xpelair" fans, a window mounting and built-in wall fan in various colours, form part of the display. Propeller fans and small Aerofoil axial fans are shown. Stand Designer: C.D. Productions Ltd.

WALLBOARDS

African Building Board Corpn. Ltd.

The stand is designed to demonstrate the wide range of application of Timberit hardboard, particularly for external use. These products are available: standard, tempered and armourboard. T. Simson & Co. Ltd. are the U.K. agents for Timberit hardboard. Stand Designer: Cyprien-Fox (Display)

Airscrew, The, Co. & Jicwood Ltd. 572, 574

Weyroc woodchip board, Weydec mela-mine-faced and balanced woodchip board and Hardec melamine-faced and balanced hardboard will be shown. A central feature of the stand will be a colour scheme selector which will show hundreds of different colour schemes in Hardec and Weydec. Another interesting exhibit will be a kitchen in diagrammatic form, with individual units cut

Stand Designer: N. Battoshill, M.S.I.A.

Bartrey Board Co. Ltd.

This stand is built up of plain, veneered and plastic faced Bartrey and Avtrey

particle boards to demonstrate the many applications of the range and its many surface veneers.
Stand Designer: Leon Goodman Dis-

plays Ltd.

British Plimber Ltd.

This stand is constructed throughout of in and in "Plimber 45" wood chipboard in the 4ft width and in various lengths up to 60ft, the latter dimensions being a new development. Methods of partitioning and lining and all uses of this material, together with fire-resistant grades, are also being demonstrated.

Stand Designer: G. R. Hoffstead, M.S.I.A.

Leboff, S., Ltd.

666, 668

The principal exhibits are Panoclips (for use in wood panelling); Fobelac, a stove-enamelled board with tiled finish; and Colorflee, a hardboard with a sprayed plastic surface which is produced in flat board, perforated and reeded forms. Plastic extrusions in various colours for use as jointing, capping internal and external angles, scotia, etc. and anodized aluminium extrusions for use with the Panoclips system are also shown.

Novobord (U.K.) Ltd.

Wallrobe knock-down units for on site assembly with semi-skilled labour are introduced. There are single, double and coupled units over three different heights throughout a comprehensive range of sizes. Novoboard, Novotan and Novotex laminated boards are also on show. Stand Designer: Rapier Design.

WALL COVERINGS

Laconite Ltd.

Laconite plastic-coated hardboard is shown in various colours and finishes in a complete bathroom and kitchen whose walls are lined throughout with Laconite. These two rooms are connected by closed circuit television to front door, back door, nursery, and public transmissions. There is also a radio controlled cooker, an electrically controlled magazine storage cupboard and similar gadgets. Stand Designer: Replicards Ltd.

WATER HEATERS. RADIATORS

Ascot Gas Water Heaters Ltd. Ascot are introducing a new water heater, the De Luxe type 512—a small sink heater with input rating of 40,000 B.Th.U./hr. and an output of 30,000 B.Th.U./hr. It is equipped with water governor and temperature selector giving temperature rise of between 45deg and 100deg F, gas governor and cock, so that there is no setting once the heater has been installed. Other exhibits include boiling water and multipoint heaters. New: De Luxe water heater 512 Stand Designer: D. Pugh, A.R.I.B.A

Dimplex Ltd. 233/0

Two new all-in-one-piece ranges of pressed steel water radiators are shown for the first time. One range is finished in stove enamel in nine colours and the other is primer finished for installations where site painting is required.



Natural overhead lighting plays an important part, not only in industry but in schools, restaurants, offices, cinemas and municipal buildings. The one-piece glass domes offer the following important advantages over all other forms of roof lighting.

- ★ The maximum amount of light is admitted for a given aperture due to the absence of all glazing bars.
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- * They are leak-proof.

ROOF LIGHTING

- A pleasing, clean appearance is obtained from the interior of the building.
- They are easily cleaned both inside and out, and are resistant to atmosphere and sulphur fumes.
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Full details will gladly be supplied on application, and our technical representatives will be pleased to advise you, without obligation, on any matters relating to Newdome roof-lights.

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It's lucky for Miss Jones that the office floor is covered with Bulgomme-Silence. With this foam-based rubber flooring that absorbs all noise even the boss won't hear her creeping in. Bulgomme-Silence Flooring is the only satisfactory answer where non-fatiguing, soundabsorbing and hard-wearing flooring material is essential. In places Bulgomme-Silerce has been down for over 25 years and after constant hard usage still shows no appreciable signs of wear. Perhaps Bulgomme-Silence will prove to be the answer to your next flooring problem. Send for the fully illustrated Bulgomme-Silence brochure and samples of this amazing material.

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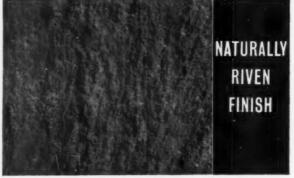
Lasting beauty



in Broughton Moor



Green Slate



Technical pamphlets showing typical methods of fixing are available on application:

1. Flooring 2. Facings. 3. Coping. 4. Cills 5. Riven Face Slabs.

In three distinct colours: Light Sea Green, Olive Green and Pale Green Barred

CONISTON, THE LAKE DISTRICT, LANCS. Tel: CONISTON 225/6

THE ARCHITECT and Building News, 18 November 1959

The radiators are now available in 18 standard sizes, with heating surfaces from 5 to 30 sq ft approximately. Copper water radiators and electric heating appliances for all applications are also shown

Stand Designer: Consul Displays.

Hurseal Ltd.

A selected range of all products (for heating and draughtproofing) of the Hurseal Heating Group (the other com-panies being Gulf Radiators Ltd., Seal-draught Ltd., and Dampa Acoustics Ltd.) are on display. The range includes radiators, boilers, burners, insulation materials, space heating equipment. acoustic ceilings, etc.

Stand Designer: Publicity & Marketing

Scandinavian Furnishings

All the furnishings of this stand are entirely Scandinavian and include interior and exterior light fittings and Danish door and window furniture by Arne Jacobsen and other Danish architects. Hudevad Planradiators and lightweight venetian blinds are also shown.

Steel Radiators Ltd.

835

Two new designs of radiator are introduced, one of which is designed for multi-storey buildings where pressures are above normal. The second type has applications for all heating work. A new arrangement of radiator and coupling for small-bore heating is exhibited. Other heating appar shown includes oil-filled elect apparatus radiators. Stand Designer: Lashbrook Advertising.

WINDOWS, METAL

Crittall Manufacturing Co. Ltd. 88, 89/E

Their range of windows and curtain walling in aluminium, steel and plastic materials; export items such as veranda screens and sunbreakers; windows for high buildings, reversible windows, louvre and plastic windows are shown. The new Horizontal window and the Continental window, with venetian blind between double glazing, are new features. Amongst other items of interest is a display of Stelvetite plastic-coated pressed steel partitioning.

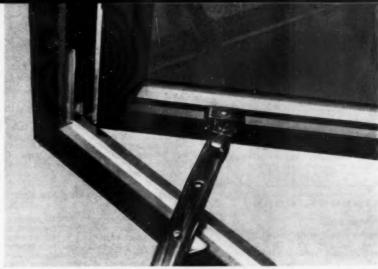
Stand Designer: Michael Cain, A.R.I.B.A., A.A.Dipl., Neville Conder, A.R.I.B.A., A.A.Dipl., A.A.Dipl.

Hope, Henry, & Sons Ltd. 78, 79/D

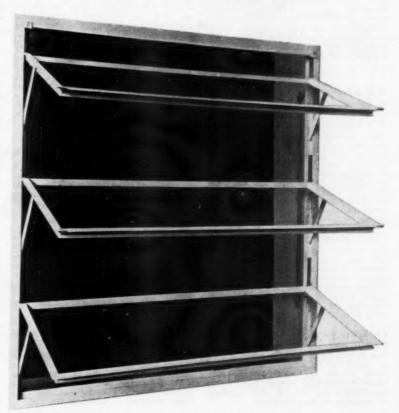
An actual section of curtain walling and sunbreakers now being supplied for the Philamlife Insurance Building in Manila is featured on this stand. It is constructed entirely in aluminium and designed to withstand gales of 150 m.p.h. The contract for \$1,000,000 covers two acres in all four elevations of the seven-storey building and includes special walkways from which the glass can be cleaned. Most of the other goods are new and are shown for the first time, including com-pletely reversible windows, Ventana louvres, tropical projected windows and the aluminium Spinner window.

Ideal Casements (Reading) Ltd.

A new product of this company is the Ideal Mipolam steel-cored plastic win-



Metal-cored plastics window by Crittall Manufacturing Co. Ltd.



Tropical projected window, Type 43A, by Henry Hope & Sons Ltd.

dow and it is included in the display. Other products on show are standard metal windows, industrial sashes, and sheet-metal products.

Thompson, John, Beacon Windows Ltd.

The stand design incorporates the company's products, including Beacon Grid-wall aluminium curtain walling with walling with insulated infill panels, the Beacon Wall-clad rustproof cladding, various ven-tilators, aluminium window frames, pressed-steel mullions, the weatherproof Glide window, Beacon industrial floor-ing, a Beacon "P" doorframe, a tropical

door, and a pressed-steel doorframe. Displayed on the stand are various other including aluminium hung windows, reversible VHP windows, the Beaconplast and Ferroplast windows, double-glazed units and delivery hatches. The Beacon air heater, a fully automatic oil-fired industrial heater, with an output of 595,000 B.Th.U./hr is also to be seen.

Williams, John, & Sons (Cardiff) Ltd. 103/F

The company's curtain-wall system, windows for multi-storey flats, sliding and folding doors, louvre windows and

EXHIBITION REPORT

double glazed windows for thermal insulation are displayed. Stand Designer: Philip H. Lawrence, A.R.I.B.A.

WINDOWS, WOOD

Holcon Ltd. 46/C

Double- and single-glazed Carda windows, including one with P.V.C. external profiles, may be seen on this stand.

H. C. Janes Ltd. 57

This stand demonstrates the use of Modolite curtain walling and also windows with all types of openings, infill panels and opening lights. There are coloured transparencies and photographs of selected contracts showing the versatility of Modolite construction.

WOODWORKING MACHINERY

Brookman, R. S., Ltd. 374/X

The automatic pneumatic drawer assembly machine selects the four components for a drawer and seals them together. This is a new products shown in the prototype and production models are expected to be ready in the New Year. Dovetailing, mortising and dowel boring machines are shown in running condition and full demonstrations are given.

Centec Machine Tools Ltd. 360/Y

The "Centec" Senior router in standard and high cycle form may be seen in addition to staircase stringer and cross-cutting attachments. Dovetailing and shaping machines are on display and plastic trimming cutters are shown in operation on plastic surfaces glued to table tops, counters, etc.

Cooksley, A., & Co. Ltd. 362/Y

Twenty machines are shown in operation of which five are new designs. Two of particular note are the LZ 16in rising spindle sawbench and the BPS 18 by 9 combined surface planing and thicknessing machine. A new catalogue is available at the exhibition.

Coronet Factoring Co. (Derby) Ltd. 369/Z

A new mortising attachment is shown which also performs slot mortising, stop grooving, dowelling and drilling. A self centralizing square chisel holder is mounted independently from the main attachment and can be removed to allow slot mortising to be carried out. A new 4½in planer fitted with the latest type of thicknesser is also shown as well as a vertical spindle moulder.

Danckaerts Woodworking Machinery 372/X

Four new models—a 5in double scribing tenoner, a chain and chisel mortiser, a 12in rolling table sawbench with canting saw and an automatic wide belt sander—are shown. Six other machines, improved since the last exhibition, a 45in band resaw, 24in four sided planer, 4in by 2½in five-cutter, 7in by 4in six-cutter, a double ended chain feed tenoner and an oscillating belt and bobbin sander may also be seen.

Dominion Machinery Co. Ltd. 385/V

Machines of all types are displayed including surfacers and thicknessers, tenoning machines, spindle moulders, mortisers and bandsaws. New types include a tenoning machine, a rise and fall sawbench, and an improved drive on the Super Elliott woodworker.

Stand Designer: Olympia Ltd.

J. K. O. Cutters Ltd. 371/X

Panel saws, nailers, automatic feed attachments, jointer attachments, cutter grinders and hand planers are on show. The PKS panel saw and the horizontal spindle type, HS7/P, are exhibited for the first time in this country.

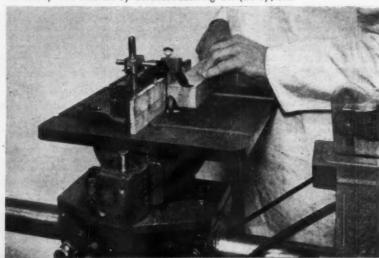
Kine Engineering Co. Ltd. 393/U

The complete range of Multico wood-working machinery is being demonstrated. All machines on show are the latest models and include many new features and refinements. Two new machines of particular interest are the Multico 14in by 16in sawbench and 12in by 4in thicknessing machine.

Monninger, C. D., Ltd. 368/

All types of machine tools for woodworking including the Monosaw for cutting large sheet materials, the Haffner rebating planer and the Monninger stair housing template (for use with portable Haffner routers) may be seen. Stand Designer: F. Austen & Son Ltd.

Vertical spindle moulder by Coronet Factoring Co. (Derby) Ltd.





Multico 14in/16in saw bench by Kine Engineering Co. Ltd.

Pickles, John, & Son (Engineers) Ltd. 377/W and 390/V

This display consists of a comprehensive range of woodworking machines, including planers and moulders, saws, knife grinders, sand paperers, stair trenchers and electric tenoners.

Robinson, Thomas, & Son Ltd. 378/W and 389/V

In all, eighteen woodworking machines are shown on this stand including a new circular sawbench, moulder, bandsaw, panel planer, combined hand and power feed planer, and hand-feed surfacer. Improved machines are the 48in band re-saw and Pan-L-saw.

Simms, C. & A., (Engineers) Ltd. 337, 338/M

Continental woodworking machinery by Canali, Steinemann & Weinig form the bulk of this company's exhibit. Mosaic parquetry plant by Weinig, for wood block floors, is amongst the new machinery and includes a crosscut saw, block planer, multi-billet saw and automatic panel assembly machine. Stand Designer: Cockade Ltd.

Stenners of Tiverton Ltd. 387/V

The emphasis is on band re-saws, three of the four machines shown being exhibited in public for the first time. The Nigger, new log loading machine, a trim saw, an air compressor and two joinery machines are also shown.

Whitehill Spindle Tools Ltd. 397/U

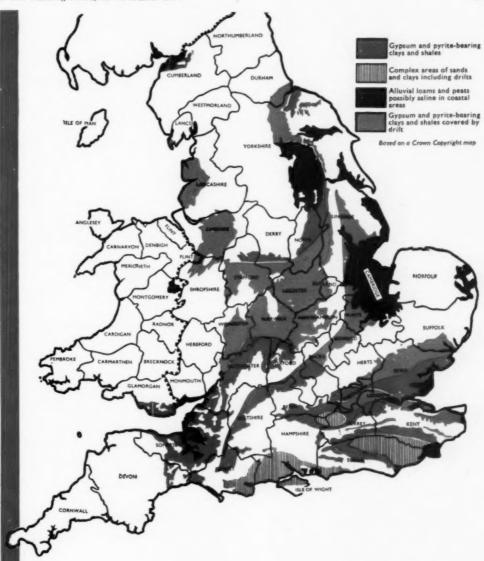
The Super Safe cutter head using serrated back cutters, a grinding machine for saws (circular and bandsaws), planer blades, mortise chains and profile cutters are exhibited by this company. Stand Designer: Beck & Pollitzer Ltd.

Wilmer Lea (Machine Tools) Ltd. 376/W

The new model "Multi-purpose" sawbench with parallel rise and fall table adapted for cutting hardboard or plastic sheets and a woodturning lathe of modern design are demonstrated.

NACTURED CEMENT CO.

LONDON



Where sulphates are likely in sub-soil or ground wateruse

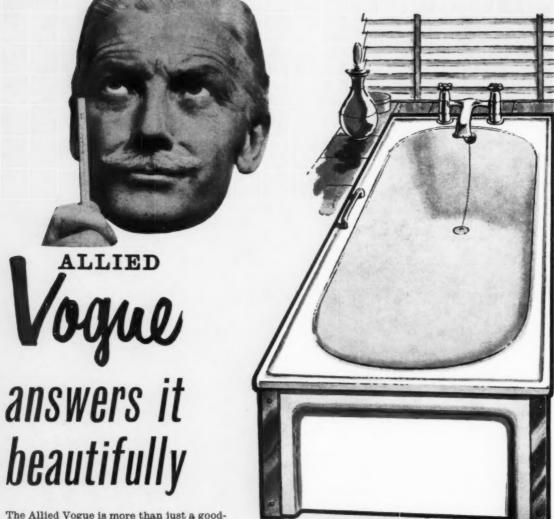
TUNNEL

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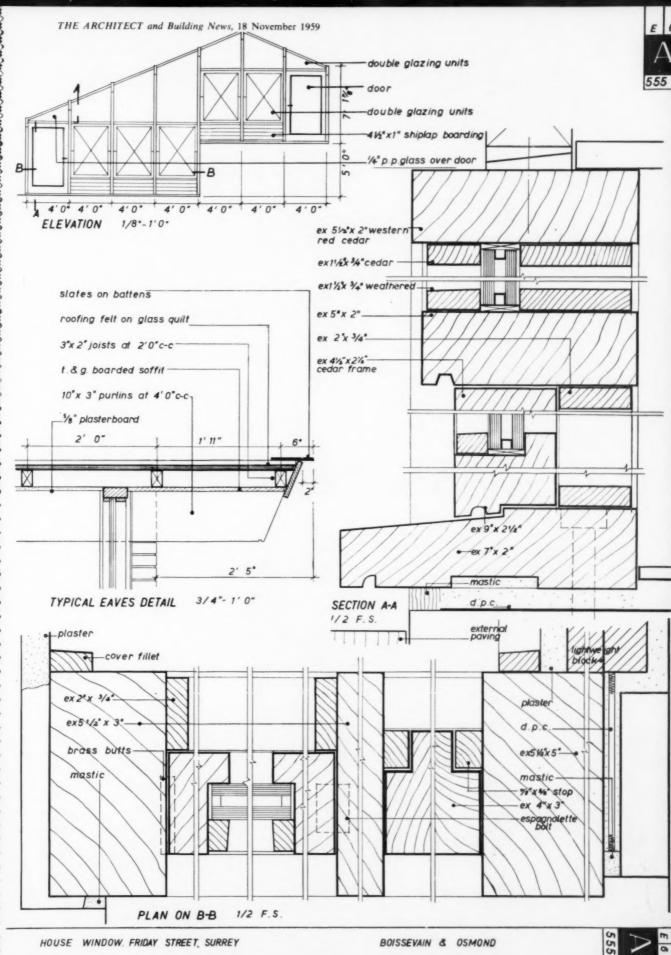
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Notes below give basic data of contracts open under locality and authority which are in a bold type. ences indicate: (a) type of (b) address for application. References indicate: Where no town is stated in the

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CONTRACT NEWS

OPEN

BUILDING

BLACKPOOL B.C. (a) Erection of a new kitchen and classroom extension at St. John Vianney School, Glastonbury Avenue, Marton. (b) Borough Surveyor, P.O. Box 17, Municipal Buildings. (c) 2gn. (e) November 30.

BLACKPOOL B.C. (a) Erection of 48 one-bedroom flats, 36 bed sitting-room flats, with stores on the Mereside estate, contract no. 24. (b) Borough Surveyor, Municipal Buildings; giving details of contracts of a similar nature carried out, labour, force, plant, and sephical staff. labour force, plant and technical statf, and trades to be sub-contracted. (d) November 24. Contract to be completed in 60 weeks.

BOOTLE B.C. (a) (1) Plastering; (2) Roof tiling, to 81 dwellings at Giovers Lane, Netherton (scheme 46), and 196 dwellings at Sterrix Lane, Netherton (scheme 45). (b) Borough Surveyor, Town Hall, Bootle, 20. (e) November 27.

BROWNHILLS U.C. (a) Two shops and four maisonnettes, East Road, Norton Canes. (b) Engineer and Surveyor, Coombe House, Brownhills, Staffs. (c) 2gn. (e) December 1.

COVENTRY C.C. (a) Next phase of building the new Training College, com-prising an area of 100,000 sq ft. (b) W. S. Hattrell & Partners, 1 Queen's Road, Coventry. (d) Today, November 18.

CROYDON B.C. (a) Erection of four bungalows, 18 flats, in one three-storey block and 32 flats in one eight-storey block at Mayday Road. (b) Borough Engineer, Town Hall. (e) December 15.

CROYDON B.C. (a) Nine houses and 32 maisonnettes in three four-storey blocks in Regina Road. (b) Borough Engineer, Town Hall. (e) December 15.

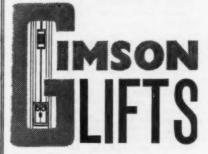
CROYDON B.C. (a) Redevelopment of Wingate Craseat temporary housing site for erection of two bungalows, 46 houses and 64 flats in two eight-storey blocks and 35 garages. (b) Names to Borough Engineer, Town Hall. (e) December 15.

CUMBERLAND C.C. (a) Conversion of a large room at Crown Court, Carlisle, to provide an additional committee room. (b) County Architect, 15 Portland Square, Carlisle. (e) December 11.

CWMBRAN U.C. (a) Construction of 14 traditional single-bedroom bungalows, warden's house, and communal lounge at Mount Pleasant Road, Pontnewydd (b) Architect to the Council, Council Offices, Cwmbran. (c) 2gn. (e) November 23.

DURHAM C.C. (a) Additions and alterations at Shiney Row schools. (b) County Architect, South Street, Durham. (e) November 30.

address it is the same as the locality given in the heading (c) deposit (d) last date of application (e) last date and time for submission of tenders. Full details of contracts marked ° are given in the advertisement section.



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D.J.P. TELEPHONES LIMITED Dept. A.B., 96 Great Titchfield St., Lendon, W.I. LANgham S153 EIRE, DUBLIN. (a) Erection and completion of proposed new office building for Irish Life Assurance Co. Ltd., at Mespil Road, Dublin. (b) Messrs. Dermot O'Reilly Hyland & Co., 2 Upper Pembroke Street, Dublin. (c) £50. (e) December 10.

FIFE C.C. (a) Six traditional houses, all trades, at Strathmighe, eighth "A". (b) County Clerk, Cupar, Fife. (d) November 21.

FLINT C.C. (a) Erection of a classroom at the primary school, Bryn Coch Lane, Mold. (d) County Architect, Llwrynogrin, Mold. (c) 3gn. (e) November 30.

GILLINGHAM P.C. (a) Erection of 68 dwellings, including outbuildings and 39 garages at Stratford estate, Rainham. Comprising five blocks of 12 maisonnettes and four pairs of houses. (b) Borough Engineer, Municipal Buildings. (c) 5gn. (e) December 18.

HAMILTON B.C. (a) Four five-storey point blocks each of approximately ten houses, at Donaldson Street, Burnbank. (b) Town Clerk, Hamilton. (e) December 7.

ILKLEY U.C. (a) Restoration and conversion for use as a museum and art gallery of the Old Manor House. (b) Surveyor, Chantry Drive, Ilkley. (c) 2gn. (e) December 12.

LOCHGELLY B.C. (a) Contract 3. Erection of 71 houses and two launderettes. (b) Town Clerk, Lochgelly. (d) Today, November 18.

LOWESTOFT B.C. (a) Erection of 50 traditional houses at Gunton estate. (b) Borough Engineer's Office. (c) 2gn. (e) December 1.

NORTHFLEET U.C. (a) Erection of 18 flats in Shepherd Street. (b) Engineer and Surveyor, Town Hall. (c) 2gn. (e) November 26.

NORTH IRELAND HOUSING TRUST.
(a) Erection of 67 dwellings and 16 garages, with engineering works, etc., at Galgorm, Ballymena. (b) The Trust, 12 Hope Street, Belfast. (c) £3. (e) November 24.

ORRELL U.C. (a) Erection of 12 bungalows at Station Avenue, off Church Street. (b) Engineer and Surveyor, Council Offices, Orrell Road, Wigan. (e) December 12.

PEMBROKE B.C. (a) Additions to Pater Hall, Pembroke Dock, consisting of kitchen, refreshment and dining room. (b) Borough Surveyor, Municipal Offices, Bush Street, Pembroke Dock. (c) 3gn. (e) December 1. PLYMOUTH C.C. (a) Erection of a primary school at Austin Farm. (b) City Architect, Seymour Road. (c) 3gn. (d) November 20.

POLRUAN-BY-FOWEY. (a) Construction of a steel-framed mould loft at Brazen Island Shipyard Ltd. (b) The Manager. (c) November 30.

READING B.C. (a) Erection of Manor junior school. (b) Borough Architect, Town Hall. (c) 2gn. (e) December 14.

REDDITCH U.C. (a) Erection of (1) 14 old people's dwellings, eight at Rectory Road, Headless Cross and six at Feckenham; (2) 60 houses at Studley Road estate. (b) Engineer and Surveyor, Council House. (c) 3gn. (d) November 18 (today). (e) December 15.

STAINES U.C. (a) Erection of 41 flats, 11 bungalows, communal hall with kitchen and ancillary offices, and warden's flat, at Kingston Crescent, Ashford. (b) Clerk to the Council, 73 High Street, Staines. (c) 2gn. (e) November 25.

SWANSEA B.C. (a) Erection of second phase of Mynyddbach County Secondary School for Girls. (b) Borough Architect, Guildhall. (c) £5. (d) November 23.

TOTTENHAM B.C. (a) Erection of public conveniences at The Hale, N.17. (b) Borough Engineer, Town Hall. (c) 2gn. (d) November 23.

ULSTER, LONDONDERRY E.C. (a) Erection and completion of kitchen dining hall, new voluntary intermediate school, at Clady Corner, Portglenone, Co. Derry for Co. Londonderry Education Committee. (b) F. M. Corr & W. H. D. McCormick, 7 Ferryquay Street. (c) 25gn. (e) December 1.

ULSTER, CO. DERRY. (a) New voluntary intermediate school, at Clady Corner, Portglenone, Co. Derry, for Very Rev. T. Hegarty, P.P. (b) Messrs. Corr & McCormick, 7 Ferryquay Street, Derry. (c) 25gn. (e) December 1.



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98 GRAY'S INN ROAD, LONDON, W.C.1. Tel.: HOLborn 1011 ULSTER, DOWN C.E.C. (a) Completion of an intermediate school at Rathfrilan, Co. Down, for Down County Education Committee. (b) Messrs. W. H. Stephens & Sons, 13 Donegall Square North, Belfast, 1. (c) 5gn. (e) December.

WASHINGTON U.C. (a) Erection of 12 houses, garages, public conveniences, bus shelter, with construction of roads and sewers at Spout Lane. (b) Engineer and Surveyor, Council Chambers. (c) 2gn. (e) December 14.

WINSFORD U.C. (a) Erection of six traditional bungalows in brick at Townsfield Gardens. (b) Engineer and Surveyor, Council Offices. (c) 2gn. (e) November 23.

WOOD GREEN B.C. (a) Erection of two self-contained flats. (b) Engineer, Town Hall, N.22. (c) 1gn. (e) November 25.

YORK C.C. (a) Erection of (1) Block of 22 flats at Fourth Avenue; and (2) Self-service shop with four flats at Chapel Fields estate. (b) City Architect, 8 St. Leonard's Place, York. (c) 3gn, for either, or both. (e) November 28.

PLACED

Notes on contracts placed state locality and authority in bold type with (1) type of work (2) site, (3) name of contractor and address, (4) amount of tender or estimate. † denotes that work may not start pending final acceptance, or obtaining of licence, or modification of tenders, etc.

BIRMINGHAM REGIONAL HOS-PITAL BOARD. (1) Twin-operating theatres. (2) Little Bromwich General Hospital. (3) W. J. Whittall & Sons Ltd., Lancaster Street, Aston Cross, Birmingham. (4) £59,053.

BRISTOL. (1) Erection of a building for shops, offices, penthouse restaurant and multi-storey car park. (2) Clifton Heights. (3) Griggs & Son Ltd., 56 Victoria Street, London, S.W.1.

CHELTENHAM B.C. (1) Erection of a council chamber and conversion works. (2) 53-55 Promenade. (3) W. Moss & Sons Ltd., Queen's Road, Loughborough. (4) £33,570.

CHESTERFIELD. (1) Extensions to warehouse, for Robinson & Sons Ltd. (2) Wheatbridge Mills. (3) E. A. & H. A. Tomlinson Ltd., 62 High Street, Brighton. (4) £78,869.

DUDLEY B.C. (1) Redevelopment. (2) St. Giles Street. (3) Five Oaks Estates Ltd., Castlecroft Lane, Compton, Wolverhampton. (4) £89,221. (1) 47 old people's cottages. (2) Maple Green. (3) Percy Cox (Builders) Ltd., 54 Grove Lane, Birmingham, 24.

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HEBBURN, CO. DURHAM. (1) Erection of office block of 95,000 sq ft. (2) Hebburn, for A. Reyrolle & Co. Ltd. (3) Sir Robert McAlpine & Sons Ltd., 81 Jesmond Road, Newcastle-on-Tyne.

LEEDS C.C. (1) Erection of 120 flats in two ten-storey blocks. (2) Ebor Gardens. (3) Reema (Construction) Ltd., Lime-wood Road, Leeds, 14. (4) £226,728.

LEEDS. (1) Erection of a five-storey shop and office block for F. Howard Collinge, of London. (2) Eastgate. (3) Sir Robert McAlpine & Sons Ltd., 80 Park Lane, London, W.1.

LEEDS C.C. (1) Erection of nine shops and maisonnettes. (2) Ireland Wood estate, Cookridge. (3) N. B. Bell & Co. Ltd., Frankland Terrace, Leeds, 7. (4) £45,000.

LEEDS. (1) Ten-storey block for Kintnis Investments Ltd. (2) Alwoodley. (3) N. B. Bell & Co. Ltd., Frankland Ter-

LIVERPOOL C.C. (1) Eight flats, six shops, assembly hall, etc. (2) Sparrow Hill estate. (3) R. J. Barton & Sons Ltd., Altcar Road, Formby, Lancs. (4) £49,398.

LONDON C.C. (1) Extensions, etc., at the depot. (2) Peckham, S.E. (3) Bernard Sunley & Son Ltd., 25 Berkeley Square, London, W.1. (4) £79,716.

LUTON B.C. (1) Erection of 19 shops, with maisonnettes. (2) Farley Hill estate. (3) Drabble Construction Co. Ltd., Wellingborough, Northants. (4) £115,813.

MANCHESTER C.C. (1) Erection of superstructure of Law Courts. (3) Wm. Moss & Sons Ltd., Roscoe Street, Liverpool. (4) £1,142,398.

MANCHESTER UNIVERSITY. Engineering building. (2) Manchester. (3) John Laing & Son Ltd., Mill Hill, London, N.W.7. (4) £405,000.

MIDDLESBROUGH B.C. (1) Erection of 59 flats, six houses. (2) Between Richmond and Suffield Streets. (3) Moore and Cartwright Ltd., Norton, Stockton. (4) £151,716

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NOTTINGHAM C.C. (1) Erection of 202 houses, 76 flats, 44 garages. (2) Bestwood Park estate. (3) J. Searson Ltd., Station Road, Sutton-in-Ashfield. (4) £381,000.

RISEA U.C. (1) 82 houses. (2) Channel View, Pontymister. (3) W. Jerymn & Sons. (4) £96,902.

ROTHERHAM. (1) Erection of staff dining room and office block, for Steel Peach & Tozer Ltd. (2) Brinsworth. (3) Henry Boot (Building) Ltd., Banner Cross Hall, Sheffield.

SOUTHEND B.C. (1) Reconstruction of sea wall. (2) Between Prospect Place and the loading pier. (3) James Miller & Partners Ltd., Pump Lane, Hayes, Middlesex. (4) £54,873.

STEPNEY B.C. (1) Erection of 246 dwellings. (2) First stage of Smithy Street development. (3) W. J. Simms, Sons & Cooke Ltd., Beddington Lane, Croydon. (4) £657,412.

STOCKPORT B.C. (1) 117 dwellings. (2) Brimington Neighbourhood Unit. (3) Vessey Ltd., Buxton Road, Hazel Grove, Stockport. (4) £176,308.

STOKE-ON-TRENT C.C. (1) Erection of adult training centre. (2) Shelton. (3) Direct Labour. (4) £87,774.

SWANSEA B.C. (1) 193 houses. (2) Sketty Park. (3) Staverton Builders Ltd., Totnes, Devon. (4) £298,610.

TYNEMOUTH B.C. (1) Erection of secondary school. (2) Marden. (3) Hastie D. Burton Ltd., King Street, North Shields. (4) £293,950.

WALLASEY B.C. (1) Erection of a hostel. (2) Twickenham Drive, Leasowe. (3) William Thornton & Sons Ltd., 38 Wellington Road, Liverpool, 8.

WALLASEY B.C. (1) 58 houses, eight shops. (2) Church Street area. (3) J. L. Rawsthorne Ltd., Belvidere Sawmills, Belvidere Road, Wallasey, Ches.

WEST SUFFOLK C.C. (1) Erection of first stage of grammar school. (2) Newmarket. (3) Kerridge (Cambridge) Ltd., Sturton Road, Cambridge. (4) £69,696.



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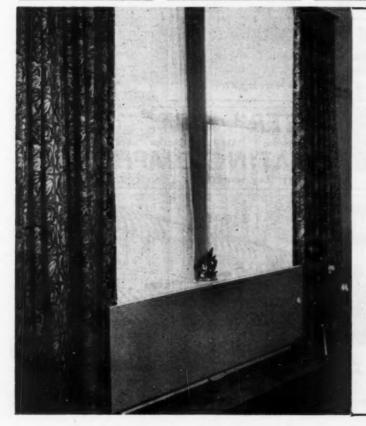
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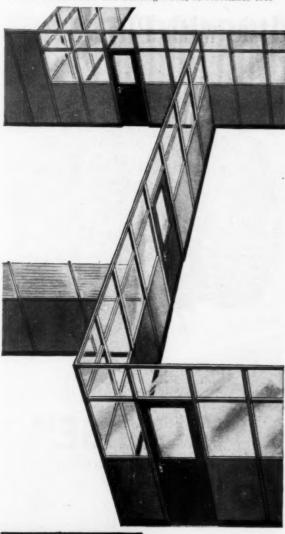
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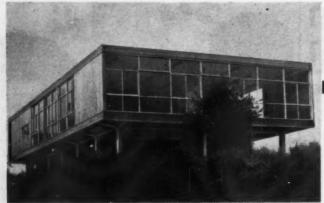


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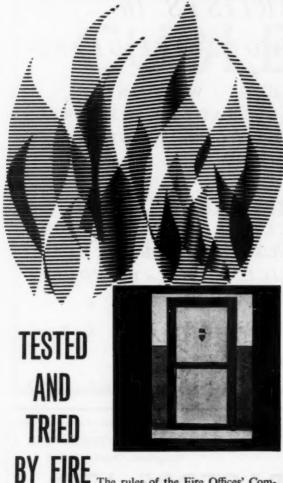
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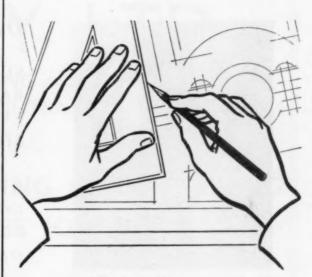
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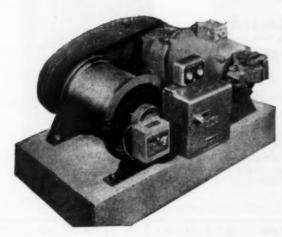
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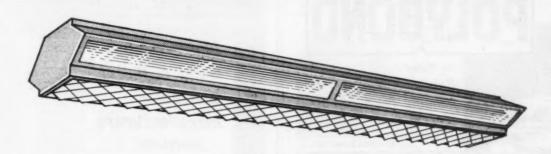
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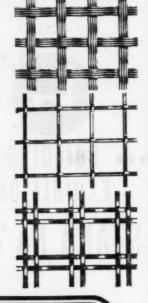
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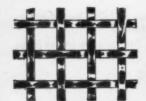
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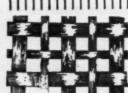
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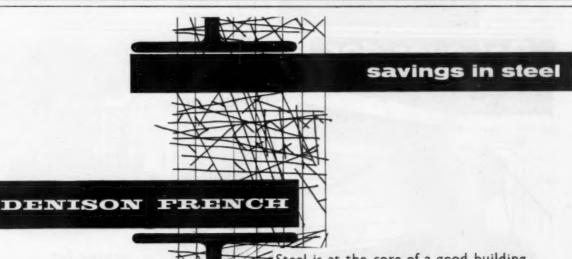


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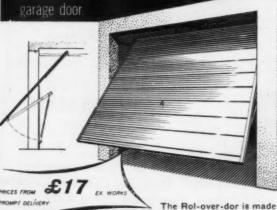
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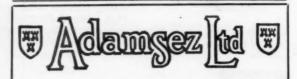
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APPOINTMENTS

Borough of Enfield

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Borough Engineer's Department
APPOINTMENT OF
ARCHITECTURAL ASSISTANT
APPLICATIONS are invited for the above appointment at a salary in accordance with Grade APT II of the National Scheme of Conditions of Service (£765 x £30—£880 per annum) with the additional appropriate London Weighting.
The commencing salary will be fixed at a point within the scale commensurate with qualifications and experience.

within the scale commensurate with quantifications and experience.

Application forms obtainable from Mr. H. D. Peake, M.Sc.(Eng.), M.I.C.E., Borough Engineer and Surveyor, 7 Little Park Gardens, Enfield, Middx, should be returned to the undersigned.

CYRIL E. C. R. PLATTEN,

Public Offices, Gentleman's Row, Enfield, Middx.

Aychife Development Corporation
ARCHITECTURAL ASSISTANT
APPLICATIONS are invited from Assistants or experienced Draughtsmen for this post at a salary in accordance with Grade APT I (£610/£765 p.a.), according to qualifications.

Duties will be mainly the preparation, under supervision, of working drawings from sketch designs for housing and simple commercial development, of working drawings from sketch designs for housing and simple commercial development ib several years work of an interesting and varied nature on neighbourhood and the development of the new town of Newton Aychife.

Apparament subject to N.J.C. conditions, superputation, medical expensions and one month's notice, investigate and the figure of Applications giving details of the greatest of two referees and stating salary required, to arrive not later than Thursday, November 26, 1959.

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Churchill House, Newton Aycliffe, Near Darlington, Co. Durham.

15818

[5830

Hampshire County Council
ASSISTANT ARCHITECT
(Special Scale £785/£1,070)
REQUIRED in the County Architect's Department. Candidates must have passed Parts I and II of the R.I.B.A. Final Examination, or equivalent, and have had at least five years' experience (including the period spent in theoretical training). The commencing salary will be determined by experience and ability. The post is pensionable and subject to a satisfactory medical report. Assistance given with removal and other expenses in approved case.

Application forms (send S.A.E.) returnable by November 25, from the Clerk of the County Council, The Castle, Winchester. [5784]

Council, The

Borough of Ealing

(1) Architectural Assistant. APT IV (£1,095/£1,250 inclusive). Must hold recognized architectural qualifications.

(2) Junior Architectural Assistant. APT I (£610/£765, plus London Weighting). Must have passed Inter R.I.B.A. or its equivalent.

Full particulars and application forms from Borough Engineer, Town Hall, Ealing, W.5.

Closing date November 30, 1959.

E. J. COPE-BROWN,

Town Clerk.

[5802]

ARCHITECTURAL DRAUGHTSMEN REQUIRED

IMMEDIATE openings for men with three to four years' experience for long-term employment (minimum contract five years) in well-established progressive firm.

Paid vacation and medical benefit scheme. State age, training, experience, marital status, availability and approximate salary expected.

Write: Ivan B. Sive,
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29-33 Chrisella Court,
273 Pretorius Street,
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[5830

APPOINTMENTS (cont)

Basildon Development Corporation
Department of Architecture and Planning
APPLICATIONS are invited for the following

Assistant Architect, Grade APT III, £880/

£1,065.

Recently qualified architects with outstanding ability in contemporary design required to join groups works on large programme of town centre, factory and housing development. Post intermediate students also may apply.

Appointments are superannuable and subject to medical examination.

Housing available for renting in approved

cases,
Applications on the special form (obtainable from the Chief Architect/Planner) must be made to the General Manager, Basildon Development Corporation, Gifford House, Basildon, Essex, by Friday, December 4, 1959.

Basildon Development Corporation
Department of Architecture and Planning
APPLICATIONS are invited for the following

pointments: (a) Senior Architect, Grade APT IX, £1,527/

(b) Architect, Grade APT VI/VII £1,163/

£1,485. Associates of the R.I.B.A. with varied experi-ence and outstanding ability in contemporary architecture are required to work on large pro-gramme of town centre, factory and housing development.

superannuable and subject Appointments are medical examination.

Housing available for renting in approved

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Applications on the special form (obtainable from the Chief Architect/Planner) must be made to the General Manager, Basildon Development Corporation, Gifford House, Basildon, Essex, by Friday, December 4, 1959. Covering envelopes to be endorsed with the post applied for. [5820

City Architect's Office Manchester

Maschester

APPLICATIONS are invited for appointment of Assistant Architect/Architectural Assistant. Salary Special Scale £785/£1,070 (commencing salary will be fixed according to qualifications and experience). Five-day week. Removal expenses allowed. Housing accommodation for a limited period may be provided. Forms of application from City Architect, P.O. Box 488, Town Hall, returnable by November 30, 1959. [5822]

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PENSIONABLE posts for men and women at least 25 and under 35 on January 1, 1959 (extension for Regular Forces Service, Overseas Civil Service, established Civil Service and temporary Government Service as Architect or Maintenance Surveyor. Candidates must be Registered Architects or, alternatively, for Maintenance Surveyor oposts, have achieved Corporate Membership of R.I.C.S. (Building Section), or have passed examinations necessary for attaining Corporate Membership. Starting salary (men, London) from £830/£1,125, according to age. Scale maximum (London) £1,300. Promotion prospects. Write Civil Service Commission, 17 North Audley Street, London, W.1, for application form quoting \$60-61.

Borough of Bexley ASSISTANT ARCHITECT

ASSISTANT ARCHITECT

APPLICATIONS are invited for this appointment at a salary according to qualifications within Grade APT III (£880/£1,065 per annum) or Special Scale (£785/£1,070 per annum) plus London Weighting.

Candidates should have experience in school and housing projects.

Form of application and conditions of appointment are obtainable from the Borough Engineer, West Lodge, Broadway, Bezkeyheath, Kent, to whom completed applications must be returned by December 1, 1959. The Council may be prepared to assist in the provision of housing accommodation.

Canvassing will disqualify.

ARTHUR GOLDFINCH.

Town Clerk.

[5825]

APPOINTMENTS (cont)

County Borough of East Ham
ARCHIFECTURAL ASSISTANTS
Grade 1 (£610/£765)
I.ONDON Weighting is paid in addition. Salaries in excess of the minima may be paid according to qualifications and experience.
Subsistence allowances may be granted over a reasonable period to the persons appointed if unable to obtain suitable housing accommodation, necessitating the maintenance of two homes.
Further details and application forms, returnable by December 4, 1959, from the Town Clerk, Town Hall, E.6.

Borough of Swindon ARCHITECTURAL ASSISTANT

ARCHITECTURAL ASSISTANT

APPLICATIONS are invited for an appointment of Architectural Assistant, APT Special Scale (£785/£1,070 per annum) in the Borough Architect's Department. Applicants should have the Final R.J.B.A. or equivalent qualification.

The department is engaged in a large and varied development programme including housing schemes, civic works and industrial buildings. Housing accommodation may be offered.

Applications, on forms to be obtained from the Town Clerk, Civic Offices. Swindon, must be returned by November 30, 1959. [5814]

Bracknell Development Corporation
APPLICATIONS are invited for the post of Architect, salary range £1,065/£1,220. Applicants, must be Corporate Members of the R.I.B.A. Superannuation schemes, medical examination. Housing available. Apply by December 1, 1959, giving age, education and qualifications, experience and appointments held (with dates and salaries), and names of two referees, to General Manager (A), Bracknell Development Corporation, Farley Hall, Bracknell, Berks. [5813]

City and County of Newcastle upon Tyne
City Architect's Department
THE City Architect will be pleased to receive
applications from suitably qualified persons for
the following Architectural vacancies in his
Department: Department:
Housing Section: APT V, APT IV, Special

Department:
Housing Section: APT V, APT IV, Special
Class.
Rehousing Section: APT V, Special Class, APT I.
General Section: APT V, Special Class, APT I.
Education Section: Special Class, APT II.
The salaries applicable to the above grades are:
APT V: £1,202/£1,375 per annum.
Special Class: £785/£1,220 per annum.
APT II: £765/£880 per annum.
APT II: £765/£880 per annum.
APT II: £765/£880 per annum.
APT II: £610/£765 per annum.
The Department is engaged upon a large and varied programme of work, including the new frown Hall, multi-storey flats, redevelopment schemes, further education projects, and a variety of general building works.
The appointments will be subject to the provisions of the Local Government Superannuation Acts, 1937-1933.
Application forms and full particulars may be obtained from George Kenyon, A.R.I.B.A., A.M.T.P.I., City Architect, 18 Cloth Market, Newcastle upon Tyne, 1. Applicants must state the Section and Grade applied for when requesting particulars.
Closing date for receipt of completed applications: December 5, 1959.
JOHN ATKINSON,
Town Clerk.

Town Hall, Newcastle upon Tyne, 1. November 10, 1959,

County Borough of East Ham
PRINCIPAL ASSISTANT PLANNING OFFICER
Grade APT III (£880/£1.065)
VACANCY in Borough Engineer's Department.
London Weighting paid in addition. Salary above
minimum paid according to qualifications and
experience.
Subsistence allowance may be paid over a
reasonable period to person appointed if unable
to obtain suitable housing accommodation, necessitatine the maintenance of two homes.
Details and application form from the Town
Clerk, E.6.
Closing date December 4, 1959. [5805]

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APPOINTMENTS (cont)

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Town Planning Department
TO work with other qualified planners on problems of Town and Country Planning.
Contract appointment for one tour of three years. Salary range £1,400/£1,600 a year.
Gratuity 20 per cent of salary. House provided at moderate rent.
Candidates must be A.R.I.B.A. and preferably also A.M.T.P.I.
Write to Director of Recruitment. Colonial

Candidates
also A.M.T.P.I.
Write to Director of Recruitment, Colonial
Office, London, S.W.I., giving full names, age,
qualifications and experience, quoting
[5828]

County Borough of Newport
APPLICATIONS are invited for following estab-

hed posts:
(i) Assistant Architect, Special Grade (£785/ £1.070 p.a.).

(ii) Assistant Heating Engineer, Grade APT III (£880/£1,065 p.a.).

(1880/£1,055 p.a.).

(1880/£1,055 p.a.).

(18) Assistants, Grade APT II (1880/£1,055 p.a.).

(2610/£2765 p.a.).

Salary for each appointment to commence at any point in scale according to ability.

Minimum qualifications required: for post (i) Final R.I.B.A.: (ii) Intermediate of appropriate professional examination; and (iii) Intermediate R.I.B.A.

Housing

Housing accommodation will be made available according to circumstances for posts (i) and (ii). Application forms from Borough Architect, Civic Centre, Newport, Mon., returnable by Monday, November 30, 1959, at latest. [5829]

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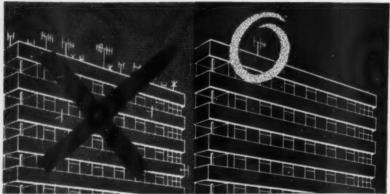
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Austin, Jas., & Son (Dewsbury)	03	Expandite Ltd	85	London Sand Blast Decorative Glass Works Ltd., The	128	Shutter Contractors Ltd	128
Ajax Architectural Products Ltd.	82 53	Fabricrete Products Ltd	132	Lucas, Joseph, Ltd	92	Simplex Electric Co. Ltd	39
Ajax Architectural Products Ltd.	33	Falcon Works (Guildford) Ltd.	115	Lytag Ltd.	107	Somerville Barnard Construction	27
Basistes Walton & Co. Ltd.	76	Faraday Electronic Instruments				Co. Ltd., The	118
Banister Walton & Co. Ltd Barwin, P., Ltd.	118	Ltd	144	Martin, J. (Brockley) Ltd	71	Sound Control Ltd	56
	117	Ferodo Ltd	64	Masonite Ltd	38	Spartan Beams Ltd	102
Berite Ltd.	86	Furse, W. J., & Co. Ltd	114	Mather & Platt Ltd	26	Spencer, J. W., Ltd	114
Beynon, T., & Co. Ltd O		Gandy Ltd	110	Merchant Adventurers Ltd	95	Spencer Wire & Co. Ltd., The	86
Bilston Foundries Ltd	73	Gardner, G. & B., & Newton Ltd.		Merthyrware Tiles Ltd	121	Staedtler, J. S., Ltd.	140
Bolton Gate Co. Ltd	/23	Ltd	103	Metal Sections Ltd	5	Stainless Steel Sink Co. Ltd., The Stic-B Paint Sales Ltd.	28 125
	127	Gerrard, J., & Sons Ltd	33	Metal Window Renovators Ltd.	118	Stonhard & Co. Ltd.	20
	114	Gimson & Co. (Leics.) Ltd	111	Molesey Metal Works Ltd	118	Stramit Boards Ltd.	36
	111	Gordon, I. R., & Co. Ltd	61	Minton Hollins Ltd	112	Stuart Granolithic Co. Ltd	
Britannia Iron & Steel Works	117	Gore, R. J., & Sons Ltd	117	M.K. Electric Ltd	40	Surfex Flooring Co. Ltd	136
	123	Gray, J. W., & Son Ltd	111	National Coal Board	12/13	Sylgias Co., The	136
British Paint Ltd I		Grecon Systems Ltd	72	Newman, William, & Sons Ltd.	79	Swiftplan	19
British Plaster Board Co	34	Green & Smith Ltd	114	Newton Chambers & Co. Ltd.	31	Stonhard & Co. Ltd	20
British Plimber Ltd	15	Gypsum Mines Ltd., The	18	Noelite Ltd	138	'm 1 - 1 /C 1 /L-1	112
	140			North British Linoleum Co. Ltd.	.1	Taylor, J. (Syston), Ltd	113
Broughton Moor Green Slate		Hall Engineering Ltd	119	Nordia	70	Thermacoust Ltd	113
	104	Hall, J. E. Ltd	17	Old, W., Ltd	124	Ltd	51
	144	Hammond & Champness Ltd	32 '	Osborn, G. H., Building Products	124	Thoday & Longman Ltd	115
	52	Harris & Sheldon (Electrical) Ltd.	113	Ltd	80	Thorp, J. B., Ltd.	
Burn Brothers (London) Ltd	32	Harvey, G. A. (London) Ltd	90			Times Veneer Co. Ltd	16
Cafferata & Co. Ltd	29	Haskins	138	Painter Bros. (Wire Workers &		Treetex Acoustics Ltd 30 &	£ 115
	14	Heating, Chas., & Co. Ltd	118	General Metal Workers) Ltd.	116	Tubewrights Ltd	138
	37	Higgs & Hill Ltd	35	Paramount Asphalte Ltd	84 112	Tunnel Portland Cement Co	105
	62	Hill Aldam, E., & Co. Ltd	67	Parsons, W. G., & Sons	118	Tyrol Sales Ltd	126
Cement Marketing Co. Ltd.,		Hills, F., & Sons Ltd	41	Pearl Varnish Co. Ltd	114	Unique Balance Ltd	134
	83	Holoplast Ltd	21	Perry Hosey & Co. Ltd	115	Cuique Baiance Ltd	134
	22	H.M.S.O.	132	Pestcure Ltd	115	Vaporheat Ltd	116
Charrington, Gardner Locket	55	Honour, J., & Son (Joinery) Ltd. Hooper & Ashby Ltd.	116	Pilkington Bros. Ltd	2/3	Vaughan Lift Engineering Ltd.	129
	16	Horsell Electrics Ltd	133	Plyglass Ltd	78	Venus Pencil Co. Ltd., The	127
	17	Hotchkiss Engineers Ltd	111	Polybond Ltd	134		
	14	Hudson, A. G. (Bent Glass), Ltd.	116	Portal Engineering Co. Ltd	123	Webster, Chas. E., Ltd	118
	13	21300014 12 21 (2011) 2111-71 2111		Potter & Soar, F. W., Ltd Price, Joseph, & Sons Ltd	134	Wednesbury Tube Co. Ltd., The Whiting, N., Ltd	IDC
Coughtrie, J. & G., Ltd	50	Ideal Boilers & Radiators Ltd. 91		Protim Ltd.	81	Williams & Williams Ltd	6/7
	88	Ironite Ltd	125	Fiodin Etd		Wood Fibre Wallboard Co.	oli
	13	Irving Blinds Ltd	118	Quicktho Engineering Ltd	122	Ltd 114/115 &	118
	77	Isocrete Ltd.	130	Quiligotti, A., & Co. Ltd	115	Wright Electric Motors (HX)	
Cubley Ltd	29	Ivo Engineering & Construction	130	Range Boilers Ltd	66	Ltd	117
Dalton, Ballard & Co. Ltd I	11	Co. Ltd	130	Ravenhead Brick Co. Ltd., The	116	Vaclais Sales	96
	37	Jablo Plastics Industries Ltd	133	Rely-a-Bell Burglar & Fire Alarm	- 10	Xpelair Sales	30
Danaura Ltd 1	11	Jackson, J. B., & Partners Ltd	116	Co. Ltd	135	Zinc Development Association	121
EDITODIAL DECEDEN	CE	C					

EDITORIAL REFERENCES

New Products when published in the editorial columns are alphabetically listed. Please mark those letters where you would like to receive further information and catalogues. For information on other editorial content enter your inquiry in the space provided.

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A	В	C	D	E	F	G	Н	1	J	K	L	M
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